

Principals

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April 10, 2023

Liberty Utilities (New York Water) Corporation – Merrick Operations District PWS ID No. NY2902840 MCL Deferral for 1,4-Dioxane Quarterly Report – First Quarter 2023

Introduction

On behalf of Liberty Utilities (New York Water) Corporation (Liberty), D&B Engineers and Architects (D&B) has prepared this document in accordance with the requirements of the New York State Department of Health (NYSDOH) for public water suppliers who have been granted deferrals from maximum contaminant level (MCL) violations for 1,4-Dioxane. Liberty's Merrick Operations District was granted an MCL deferral for 1,4-Dioxane in 2020 due to its proactive efforts toward the implementation of treatment for this compound.

The last three years have been a time of unprecedented disruption in the supply chain of chemical supplies, equipment, infrastructure components, pipe, and materials (e.g., steel), and treatment systems. Contractors and water suppliers, locally and nationwide, have been impacted by these issues in completing both small-scale and large-scale projects. Shortages of necessary items have significantly impacted Liberty, primarily in terms of price increases, decreased availability, and longer lead times. In addition, due to the rapidly changing regulatory environment through an expanded list of contaminants with lower regulatory advisory levels or MCLs, local and state regulators are experiencing a large number of capital project submissions, in addition to their regular workload. This increased workload has led to longer regulatory review times of engineering reports, detailed design plans, and specifications. In many cases, these factors, which are out of Liberty's control, have caused delays in obtaining final regulatory approval, commencing construction, procuring equipment and necessary components, and conforming to proposed construction schedules.

Liberty has done everything within its power to adhere to the project schedule approved in the original deferral request, as described in the previous quarterly deferral reports. The full impact of delays was not known at the time of the original compliance deferrals and due to these regulatory changes, these delays were expected to become worse before improving because of increased national demand. Recognizing these exceptional circumstances, Liberty requested and received a 12-month deferral renewal which extended the MCL compliance deadline to August 25, 2023.

D&B Engineers and Architects

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Liberty's goal, as always, is to provide an adequate supply of potable water to its consumers and it has done everything in its ability to move forward on the treatment project to further that goal and meet consumer demands. These impacts of the last three years are expected to continue for the foreseeable future and will most likely affect the ability of Liberty to conform to the project schedule outlined in the original deferral request, even with the deferral renewal. In particular, the supply chain difficulties have impacted all facets of construction. The most notable delays are related to motor starters, transfer switches, emergency generators, and controls equipment which now require more than a year to accomplish submittal approvals, fabrication, and delivery to a project site. In some cases, the delivery date for this critical equipment is still unknown as the contractors and equipment vendors are experiencing labor shortages and cannot predict material availability.

In light of these on-going conditions of supply chain issues, Liberty is submitting a request to the NYSDOH for a 1-year extension to the existing deferral to extend the compliance deadline to August 25, 2024 to reflect the hardships that these delays have had upon the project completion schedule.

The enclosed is a report describing Liberty's progress towards maintaining the highest quality of water for the customers in the Merrick Operations District, and meeting the deadlines set forth in the deferral approval. The schedule for the project is contained in **Attachment A**.

Corrective Action Plan Milestones

Advanced Oxidation Process (AOP) Treatment System for Seamans Neck Road Wells 3A and 4

At this time, Liberty has secured the funding for the project and construction has commenced in the first quarter of 2023. As previously mentioned, regulatory approval of the project has been received and it is anticipated that the advanced oxidation process (AOP) treatment system construction will be complete and will be placed into service in the second quarter of 2024. The Iron Removal Facility (IRF) improvements project, currently on-going at the site, which is required for efficient AOP treatment operation, is in construction and iron media replacement has been completed and approved by the Nassau County Department of Health for placement into service. Miscellaneous other improvements at the site included in this project are on-going and will be completed by the third quarter of 2023. The booster plant projects that will support the pressure fluctuations in the Seamans Neck pressure zone while the plant is out of service are in construction. The request for a land easement from NYS Parks, Recreation, and Historic Preservation to accommodate one of the booster plants is pending.

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Public Notification

Public notification regarding the presence and regulation of emerging compounds, as well as the deferral, was included in the former New York American Water (NYAW) 2020 Annual Water Quality Report (AWQR)/Consumer Confidence Report released in May 2021, posted on the former NYAW website at libertyutilities.com and publicized via newspaper ads and bill insert. The most recent 2021 AWQR specific to the Merrick Operations District provides public deferral well is available notification of the as and at https://new-yorkwater.libertyutilities.com/uploads/Merrick CCR.pdf.

In addition, Liberty has uploaded this quarterly report to its website at <u>https://new-york-water.libertyutilities.com/all/residential/safety/seamans-neck-public-notification.html</u>. Documentation of the public notification is contained in **Attachment B**.

Analytical Sampling

Sample results for the wells for which deferrals were granted (Seamans Neck Wells 3A and 4 and Jefferson Street Well 11), taken during the first quarter of 2023, are contained in the below table. The 1,4-Dioxane levels for the Jefferson Street Well 11 in the first quarter 2022 were 0.023 micrograms per Liter (ug/L) and, in the second quarter 2022 and first quarter 2023, were non-detectable levels. This recent sampling shows consistent 1,4-Dioxane results below the MCL. Full laboratory reports for each sample are contained in **Attachment C**.

Merrick Ops District (PWS No. NY2902840)						
Location	Well ID No.	Date Sampled	Lab Utilized	1,4- Dioxane (ug/L)		
Seamans Neck Well 4	N-09338	01/03/2023	Pace	2.1		
Jefferson Street Well 11	N-07407	01/09/2023	Pace	ND		
Seamans Neck Well 3A	N-14347	01/23/2023	Pace	2.2		
Seamans Neck Wells 3A and 4 Combined - GAC	GAC for N-14347 and N-09338	01/23/2023	Pace	1.5		

First Quarter 2023 1,4-Dioxane Water Quality Monitoring Results (ug/L)

ND – Not Detected

Conclusion

As demonstrated above, Liberty is actively working to preserve the quality of water for its customers and comply with the requirements put forth by the NYSDOH. Liberty looks forward

D&B ENGINEERS AND ARCHITECTS

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to continuing to work towards completion of its treatment facilities for the Merrick Operations District.

Should you have any questions, please contact the undersigned at (516) 364-9890, Ext. 3401, or visit the website at <u>https://libertyutilities.com/</u>.

Very truly yours,

PILSL

Philip Sachs, P.E. Vice President

Enclosures cc: K. Wheeler (NYSDOH) B. Rogers (NYSDOH) W. Provoncha (NCDH) P. Young (NCDH) R. Putnam (NCDH) C. Alario (Liberty) J. Kilpatrick (Liberty) G. Sachs (Liberty) L. Ortiz (D&B) P. Connell (D&B) +5479\KK04102306_Q1 2023

PRS/LOt/kb

ATTACHMENT A

MCL Deferral Project Schedule

Liberty New York Water Merrick Operations District MCL Deferral Report - Q1 2023	Seamans Neck Road Wells 3A and 4 AOP Project Schedule
Task Name	2021 2022 2023 2024 Otr 1 Otr 2 Otr 3 Otr 4 Otr 3 Otr 4 Otr 3 Otr 4 Otr 3
Pilot Test (Complete)	
Basis of Design Report (Complete)	
Regulatory Review of BODR (Complete)	
Detailed Design (Complete)	
Regulatory Review of Contract Documents (Complete)	
Town Zoning Process (Complete)	
Bidding and Construction (In Progress)	
Startup and Regulatory Acceptance Testing	

ATTACHMENT B

Public Notification Documentation

2020 WATER QUALITY REPORT

Service Area 2–South Shore: **Merrick Operations District**

Public Water Supply ID# NY2902840

This report complies with Part 5-1.72, New York State Sanitary Code (10 NYCCR) and federal Consumer Confidence Report regulations (40 CFR Part 141, Subpart 0).

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

本报告与您的饮用水有关。 如果您不了解其内容,应请别人为您翻译解说:

이 보고서에는 귀하께서 사용하고 계시는 식수에 관한 정보가 들어있습니다. 만약에 이해를 못하시면 누군가에게 번역을 의뢰하십시오.

A Message from the New York American Water President



To Our Valued Customer:

Thank you for the opportunity to serve you. I am pleased to share our Annual Water Quality Report with you - this is our report card on the quality of the drinking water delivered to our customers. The report shows that we continue to supply you with water that

meets or surpasses all county, state, and federal water quality standards. We encourage our customers to review this report as it provides important details about the source and quality of your drinking water between January and December 2020.

New York American Water (NYAW) invests in our infrastructure to deliver quality drinking water to our customers. This includes the facilities and technology needed to draw water from the source and treat it, along with miles and miles of pipeline hidden below the ground to bring water to your tap. In addition, our plant operators, water quality experts, engineers and maintenance crews work around the clock to provide you with quality water.

Delivering safe, reliable water service requires significant investment to maintain and upgrade aging facilities. In 2020, we invested approximately \$62 million in system improvements. NYAW is also making important investments in water treatment technology to comply with New York State Department of Health's (NYSDOH) new drinking water standards for emerging compounds, specifically 1,4-Dioxane, PFOA, and PFOS.

NEW YORK MERICAN WATER

The COVID-19 public health emergency highlighted how essential water is for public health. We remain steadfast in our commitment to delivering safe and reliable water service while maintaining a safe environment for our employees and customers. NYAW extends our sincerest gratitude to our field employees as well as all frontline workers and essential employees who are on the job and keeping life flowing. Thank you!

Sincerely,

Lynda DiMenna President, New York American Water

Public Participation – How You Can Get Involved

Customers can participate in decisions that may affect the quality of water by:

- Reading the information provided in bill inserts and special mailings
- Contacting the company directly with questions or to discuss issues
- Attending open houses conducted by the company
- Responding to survey requests
- Attending presentations by the company made to local community and civic associations
- Contacting agencies such as the Nassau County Health Department (NCDOH) at 516-227-9692

QUALITY. ONE MORE WAY WE KEEP LIFE FLOWING.

Be Water Smart – Think Conservation

The New York State Department of Environmental Conservation requested that all Long Island water suppliers reduce their peak pumpage by 15 percent to protect the long-term sustainability of the Long Island aquifer. Our customers must conserve water to help us achieve this goal. When our customers conserve, not only do they reduce their water bill, but NYAW is able to defer infrastructure investment projects that are needed to meet peak water demand, which can reach as high as 50 million gallons of water a day in the summer.

The following suggestions will help you make your home "water efficient" without sacrificing comfort or changing lifestyles:

- Install smart irrigation technology on your irrigation system to irrigate as efficiently as possible.
- Install a moisture sensor on your irrigation system to prevent wasteful watering during or just after a rain.
- Use native, drought-resistant shrubs, trees, plants, and • grasses in your landscape.
- Run dishwashers and washing machines only with full • loads.
- Turn off the tap when brushing your teeth or shaving. •
- Check every faucet for leaks. Even a slow drip can . waste 15 to 20 gallons a day, or about 6,000 gallons a year.
- If you suspect that you have a water leak, order our • free Leak Detection Kit. The kit contains information, and dye tablets to help you determine if you have a wasteful water loss. Call our customer call center or 516-632-2244 to order.
- Replace older devices with water-saving showerheads, . faucets, or low flush toilets. A normal showerhead uses 5 to 7 gallons a minute. Switching to a low-flow model that uses 1.5 gallons a minute can save a family thousands of gallons of water a year.

What is a Water Quality Report?

To assure that water is safe to drink, the U.S. Environmental Protection Agency (USEPA), and the Health Departments of New York State and Nassau County, set regulations for water quality and indicate the levels of various substances that are acceptable in public drinking water. This report explains how our water measures up to those standards. As you can see by the results, our water quality is excellent.

The NYSDOH) and the U.S. Food & Drug Administration regulate and set limits for substances in bottled water, which must also provide protection for public health.

During 2020, our system was in compliance with applicable NYS drinking water operating, monitoring and reporting requirements. If you have questions about this report, please contact our Water Quality Manager at 516-632-2239.

Share This Report:

Landlords, businesses, schools, hospitals, and others are encouraged to share this important water quality information with water users at their location who are not direct customers of NYAW. Additional copies of this report are available by contacting us at 516-632-2239.

How to Contact Us

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers protect our water sources, which are the heart of our community. Please call our Customer Call Center tollfree if you have questions:

NYAW:

Customer Call Center: 1-877-426-6999 (M-F; 7am-7pm) Emergencies: 1-877-426-6909 (24 hours) TDD (Hearing/Speech impaired): 1-800-300-6202 Online: www.newyorkamwater.com

Merrick Administrative Office:

New York American Water 60 Brooklyn Avenue, Merrick, NY 11566 516-632-2232

Billing Payment Address:

New York American Water PO BOX 371332 Pittsburgh, PA 15250-7332

Water Information Sources : NYSDOH

1-518-473-8600 • www.health.state.ny.us NCDOH 516-227-9692 • www.co.nassau.ny.us/health New York State Department of Public Service 1-800-342-3377 • www.dps.state.ny.us USEPA www.epa.gov/safewater

EPA Safe Drinking Water Hotline 1-800-426-4791 American Water Works Association www.awwa.org Water Quality Association www.wga.org

About NYAW

NYAW, a subsidiary of American Water (NYSE: AWK), is the largest investor-owned water company in New York, providing high-quality and reliable water and/or wastewater services to approximately 350,000 people.

About American Water

With a history dating back to 1886, American Water is the largest and most geographically diverse U.S. publicly traded water and wastewater utility company. The company employs more than 6,800 dedicated professionals who provide regulated and market-based drinking water,



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wastewater, and other related services to more than 14 million people in 46 states. American Water provides safe, clean, affordable, and reliable water services to our customers to make sure we keep their lives flowing. For more information, visit <u>amwater.com</u> and follow American Water on <u>Twitter</u>, <u>Facebook</u> and <u>LinkedIn</u>.

Communities Served

Bellmore East Massapequa* Levittown* Massapequa* Merrick North Bellmore North Merrick North Merrick North Seaford North Wantagh Seaford Wantagh *community partially served

Average Residential Usage & Cost

In 2020, the average residential household used approximately 105,353 gallons of water at a cost of about \$646, or \$1.77 a day. With an average of 3.0 persons per household, the cost of water was about 59¢ a day per person.

Source, Quality & Quantity

Groundwater is the source of your drinking water supply. It is drawn from 16 wells located in the aquifer system beneath the land surface.

The Aquifers

The aquifers are water-bearing geologic deposits of sand and clay that absorb and store about 45 percent of the rain and snow that fall on Long Island. NYAW– Merrick Operations Center has wells in the Magothy aquifer.

Not all wells are operating at the same time, which means that the water you receive is a blend of treated water from different well locations (an integrated system).



Not to scale

If you have a private well which is unregulated and untested, you should not use the water for drinking or cooking. (Source: NCDOH)

Source Water Assessment

The NYSDOH, with assistance from the local health department and a consulting firm, has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how rapidly contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well's contributing area and the likelihood that the contaminant can travel through the environment to reach the well. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is or will become contaminated. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected (if any). The source water assessments provide resource managers with additional information for protecting source waters into the future.

Drinking water is derived from 16 wells. The source water assessment has rated most of the wells as having a very high susceptibility to industrial solvents and a high susceptibility to nitrates. The elevated susceptibility to industrial solvents is due primarily to point sources of contamination related to transportation routes and commercial/ industrial facilities and related activities in the assessment area. The high susceptibility to nitrate contamination is attributable to residential, commercial, and institutional land use and related practices in the assessment area, such as fertilizing lawns.

A copy of the assessment, including a map of the assessment area, can be obtained by contacting our Water Quality Manager at 516-632-2239.

How is Your Water Treated?

Our water supply is obtained from wells located throughout our service area, and average about 500 feet in depth. In our area of southeastern Nassau County, the soil has naturally high iron and mineral content. The water dissolves these naturally occurring minerals, and while they are not health hazards, they can cause discolored water issues. Bacteriological pollutants are not usually present in wells at the average depth of 500 feet and, consequently, water directly from the well is drinkable. However, water treatment is required to protect the water in the distribution system and to minimize discolored water conditions.

Treatment consists of:

1. Chlorination for bacteriological disinfection (using Sodium Hypochlorite)



- 2. Caustic Soda (Sodium Hydroxide) to raise pH and minimize corrosivity to water mains and household plumbing
- 3. Filtration to remove iron at three well locations
- 4. Calciquest (Phosphate compound) to stabilize or sequester the iron not removed by filtration, and to act as a corrosion control inhibitor.
- 5. Granular Activated Carbon (GAC) to remove organics at one well location (US Navy / Northrop-Grumman plume site).

We take steps to reduce the potential for lead to leach from your pipes into the water. This is accomplished by adding a corrosion inhibitor (Calciquest is an Orthophosphate compound) to the water leaving our treatment facilities. There are steps that you can take to reduce your household's exposure to lead in drinking water. For more information, please review our Lead and Drinking Water Fact Sheet at:

www.nyamwater.com/water-quality/lead-and-drinkingwater

System Improvements

In 2020, we continued to make significant upgrades to our system and infrastructure. These improvements include:

- Replaced 14,893 feet of water main throughout the service territory.
- Replaced 10 fire hydrants.
- Replaced 114 service lines.
- Replaced 8,014 water meters.
- Completed replacement of the iron filtration media and drilled a new 3 Million-Gallon-Per-Day water supply well at the Newbridge Road Treatment Plant in North Bellmore.
- Drilled a new 3 Million-Gallon-Per-Day water supply well at the Jefferson Plant in Merrick.
- Completed design of a 6 Million-Gallon-Per-Day Advanced Oxidation Plant for removal of 1,4-Dioxane at the Seaman's Neck Treatment Plant in Wantagh.

Improvements planned for 2021 include:

- Replace approximately 14,700 feet of water main.
- Replace 5 fire hydrants.
- Replace 120 service lines.
- Replace approximately 1,500 water meters.
- Construct new well buildings at the Jefferson St. Plant in Merrick, and the Newbridge Plant in North Bellmore.
- Breaking ground on construction of the 6 Million-Gallon-Per-Day Advanced Oxidation Plant for removal of 1,4-Dioxane at the Seaman's Neck Treatment Plant in Wantagh.
- Drilling of a replacement 3 Million-Gallon-Per-Day water supply well at the Sunrise Mall Well Site in Massapequa.

Do I Need to Take Special Precautions?

To ensure that tap water is safe to drink, the USEPA prescribes regulations limiting the number of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Although our drinking water meets all state and federal regulations, some people may be more vulnerable to disease-causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care provider about their drinking water.

If you have questions, contact the NCDOH at 516-227-9692. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium*, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Substances Expected to be in Drinking Water

In general terms, the sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or from human activities.

Substances that may be present in source water include:

- Microbiological Contaminants: Such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations or wildlife.
- Inorganic Contaminants (IOC's): Such as salts and metals which can be naturally occurring or may result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **Pesticides and Herbicides (SOC's):** Which may come from a variety of sources such as agriculture, urban storm water runoff and residential uses.
- Organic Chemical Contaminants (VOC's): Including synthetic and volatile organic chemicals which are by-products of industrial processes and petroleum production, and may also come from gas stations, urban storm water runoff and septic systems.
- Radioactive Contaminants: Which can be naturally occurring or may be the result of oil and gas production and mining activities.



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For more information about contaminants and potential health effects, call the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Cryptosporidiosis & Giardiasis

Although there have been no cases of Cryptosporidiosis in Nassau County attributable to the water supply, you should be aware of the risks to people with severely weakened immune systems. Cryptosporidiosis and Giardiasis are intestinal illnesses caused by microscopic parasites that can be transmitted several ways including through drinking water. Cryptosporidiosis can be very serious for people with weak immune systems, such as transplant patients; individuals receiving chemotherapy or dialysis, and people with Crohn's disease or HIV infection. Individuals who think they may have been exposed to Cryptosporidiosis or Giardiasis should contact their health care providers immediately.

Immuno-compromised patients who may have been advised by their health care provider that they may be at risk, especially when traveling, should observe the following:

- One minute of boiling water at a rolling boil will kill *Cryptosporidium* parvum and Giardia lamblia.
- Drinking bottled water does not guarantee that the water is free from Cryptosporidiosis or Giardiasis.
 Contact your health care provider about your options. If you have guestions, contact the NCDOHat 516-227-9692.

Lead & Copper Rule Statements

The Lead and Copper Rule requires sampling for lead and copper at the tap. In 1992, the first-year testing was required; tap water was sampled in compliance with EPA regulations. Test results were excellent: at least 90 percent of the lead tests were well below 10 parts per billion, and for copper, below 0.5 parts per million, indicating that the company's corrosion control treatment processes continue to be effective. The same tests were done roughly every three years from 1997 through 2020 with similar results. We are on an approved reduced monitoring schedule, and the next round of homeowner monitoring for the Lead and Copper Rule was completed in the summer of 2023. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. New York American Water is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in drinking water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at http://www.epa.gov/safewater/lead.

How do I read the Water Quality Table?

The Water Quality Table – **"Table of Detected Contaminants**" is the most important section in this report, containing details on New York American Water's comprehensive testing program for drinking water at the tap. It compares the results from tests we performed in 2020 (and earlier) with the health standards established by federal, state, and local health authorities. Of approximately 165 substances or parameters tested, detectable levels were found for about 35; and these levels are trace amounts, well below the levels set to protect public health.

To review the quality of your drinking water, compare the result in the "Maximum Amount Detected" column with the Standard in the "MCL" column. That Standard is the highest level that is considered safe for drinking water. To be in compliance, the High result in the "Range: Low-High" column should be lower than the MCL Standard. For example, under Metals & Inorganic Substances, the "MCL" standard for Barium is 2,000 ppb and the "Maximum Amount Detected" result is 120 ppb, well below the maximum allowed level (or "MCL").

Also review the "**Compliance Achieved**" and "**Violation**" columns to determine if New York American Water violated any standards. As you can see, our system had no violations. Further evidence of the quality of our water can be seen in the "**Listing of Non-Detected (ND) Contaminants**" — An extensive list of substances that we tested for and did not find in our distribution system and/or water sources.

The **Definition of Terms** below provides further explanation of the data.

Definitions of Terms Used in This Report

- Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.
- Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **MGD** = Million Gallons per Day
- **90th Percentile Value:** The values reported in the "Lead and Copper Rule" section represent the 90th percentile. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90 percent of the lead and copper values detected in your water system.
- N/A: Not applicable



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- None Detected (ND): Laboratory analysis indicates that the constituent is not present at the method detection level.
- Parts Per Million (ppm): Corresponds to one part of liquid in one million parts of liquid [Equivalent to "milligrams per liter" (mg/L)].
- Parts per Billion (ppb): Corresponds to one part of liquid in one billion parts of liquid [Equivalent to "micrograms per liter" (µg/L)].
- Parts per Trillion (ppt): Corresponds to one part of liquid in one trillion parts of liquid [Equivalent to "nanograms per liter"; or one second in approximately 31,506 years].
- **Picocuries per liter (pCi/L):** A measure of the radioactivity in water.
- Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.
- Total Dissolved Solids (TDS): An overall indicator of the amount of minerals in the water.

Water Quality Facts

To provide high quality water, individual water samples are taken each year for chemical, physical, and microbiological tests. Testing can pinpoint a potential problem so that preventive action may be taken.

Tests are done on water taken from the well ("raw water"), water within our treatment facilities, water exiting our treatment plants at the point-of-entry to the distribution system, and from sites located throughout our distribution system after treatment. These tests are conducted in the company's state certified laboratory, by the NCDOH Laboratory, and by independent, certified laboratories approved by the state, who report results simultaneously to the company and to the Health Department. NYS allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year-to-year. Some of the data, though representative of the water quality, are more than one year old.

For a copy of the Water Supplement containing detailed data on testing at the source water wells before treatment, call us at 516-632-2239 and request a copy.

2020 STATISTICS AT-A-GLANCE

Wells Closed/Restricted	None
Violations of Standards	None
Typical Well Depth	500 Feet
Aquifers	Magothy
Pumping Stations	12
Service Area	20 Square Miles
Total Water Withdrawn	5,055,053,000 Gal.
Total Water Sales	4,837,659,000 Gal.
Total Water Lost from System*	259,890,000 Gal.
Population Served (approx.)	135,000
Customers Served (accounts)	45,018
Miles of Mains	433

 \ast Total water lost from the system includes "Accounted For" and "Unaccounted For" water. Non-revenue water is approx. 9.4% of total water delivered to the system; of which, approximately 5.1% is accounted for and 4.3% is unaccounted for.

Water Quality Table – Table of Detected Contaminants 2020 (SA2 - Merrick Operations) REGULATED SUBSTANCES

Contaminant (units)	Date Sampled	MCL	MCLG	Maximum Amount Detected	Range: Low- High	Violation (Yes/No)	Typical Source
Microbiological							•
Total Coliform (% positive samples in any given month) ¹	2020 (highest month was August 2020)	TT=>5% samples positive	N/A	1.6% ¹ (2 POS out of 126 total samples in August 2020)	ND (0%) - 1.6%	No	Naturally present in the environment
Disinfection By-Products							
TTHM's (Total Trihalomethanes) (ppb) ²	Quarterly	80	0	4.8	<1.0 - 4.8	No	By-product of drinking
HAA5's (Total Haloacetic acids) (ppb) ³	2020	60	0	<2.0	<2.0 - <2.0	No	water disinfection
Disinfectants							
Chlorine (ppm) ⁴	2020	N/A	N/A	2.20	<0.10 - 2.20	No	Water additive used to control microbes
Radiological ⁵							
Gross Alpha Activity (pCi/L)	10/2018	15	0	8.06	ND - 8.06	No	
Gross Beta Activity (pCi/L)	10/2018	50	0	4.23	0.171 - 4.23	No	
Combined Radium-226 and Radium-228 (pCi/L)	09/2018	5	0	4.61	0.280 - 4.61	No	Erosion of natural deposits
Uranium (ug/L)	10/2018	30	0	0.187	ND - 0.187	No	



Lead and Copper Rule (Tap water samples were collected from 54 homes in the service area)

Contaminant (units)	Date Sampled	Action Level	MCLG	Amount Detected (90th %tile)	Range (Low-High)	Violation (Yes/No)	Typical Source
Copper (ppm) ⁶	07-09/	1.3	1.3	0.270	0.021- 0.340	No	Correction of household plumbing systems
Lead (ppb) 7	2020	15	0	1.4	ND – 6.6	No	

Metals & Inorganic Substances

Contaminant (units)	Date Sampled	MCL	MCLG	Maximum Amount Detected	Range: Low-High	Violation (Yes/No)	Typical Source
Barium (ppb)	10/2020	2,000	2,000	120	ND - 120	No	Erosion of natural deposits
Calcium (ppm)	06/2020	N/A	N/A	5.4	ND - 5.4	No	Naturally occurring
Chlorides (ppm)	06/2020	250	N/A	26.7	ND - 26.7	No	Naturally occurring or indicative of road salt contamination
Iron (ppb) ⁸	06/2020	300	N/A	940	ND - 940	No	Naturally occurring
Manganese (ppb) ⁸	05/2020	300	N/A	89	ND - 89	No	Naturally occurring
Nickel (ppb)	11/2020	N/A	N/A	25.0	1.2- 25.0	No	Naturally occurring
Nitrates as N (ppm)	07/2020	10	10	0.320	ND - 0.320	No	Erosion of natural deposits; Runoff from fertilizers and septic tanks
Sodium (ppm) ⁹	10/2020	N/A	N/A	37.5	2.6 - 37.5	No	Naturally occurring; Road salt; Water softeners
Sulfate (ppm)	06/2020	250	N/A	59.3	ND - 59.3	No	Naturally occurring; Road salt; Water softeners

Organic Substances

Contaminant (units)	Date Sampled	MCL	MCLG	Maximum Amount Detected	Range: Low-High	Violation (Yes/No)	Typical Source	
Trichloroethene (TCE)- (ppb)*	12/2020	5	0	22.5	ND - 22.5	No	Discharges from metal degreasing sites and other factories. Grumman-NAVY plume	
Specific Organic Compounds								
1,4 dioxane (ppb)*	11/2020	1.0	N/A	1.50	ND - 1.50	No	Released into the environment from commercial and industrial sources and is associated with inactive and hazardous waste sites	

Physical Parameters & Unregulated Substances

Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
Alkalinity (ppm)	2020	48.5	27.9 - 48.35	N/A
Calcium Hardness (ppm)	2020	3.7	0.9 – 3.7	N/A
Color Index (units)	2020	15	ND - 15	Presence of metals such as copper, iron and manganese. Results greater than 15 units are considered 'discolored'.
Corrosivity (Langelier Index) 10	2020	(-2.31)	(-3.27) - (-2.31)	N/A
Hardness, Total (ppm)	2020	10.1	1.7 - 10.1	N/A
Magnesium (ppm)	2020	1.9	ND - 1.10	Naturally occurring
pH (units) ¹¹	2020	7.1	7.0 – 7.1	N/A
Total Dissolved Solids (TDS) (ppm)	2020	123	42 123	N/A

Footnotes:

¹ A total of 1,449 distribution system bacteriological samples were taken in 2020, with 3 positive Total Coliform results = 0.21% positives for the year. ²TTHM's mean the sum of: Bromoform, Bromodichloromethane, Dibromochloromethane, and Chloroform. The highest 'Locational Running Annual Average"

³ HAA5's includes the sum of: Monochloroacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromoacetic acid, and Dibromoacetic acid. The highest

'Locational Running Annual Average" was less than 2.0 ppb ("<2.0") in 2020.

⁴ The running annual average of all Chlorine Residual readings (1,459) in the distribution system was **1.50 ppm** for 2020.

⁵ Radiological results are from individual raw water wells, and not distribution locations, as required by the NCDOH.

⁶ The level presented represents the 90th percentile of 54 sites tested. The "action level" for copper was not exceeded at any of 54 sites tested.

⁷ The level presented represents the 90th percentile of 54 sites tested. The "action level" for lead was not exceeded at any of 54 sites tested.

⁸ Higher levels of iron (up to 1,000 ppb) may be allowed by the state when justified by the water supplier, as is the case with NYAW - Merrick Operations district. The Total of iron and manganese should not exceed 500 ppb, unless allowed by the state, as is the case with NYAW - Merrick Operations district.



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⁹ Water containing more than 20 mg/L of sodium should not be used for drinking by persons on severely restricted sodium diets. Water containing more than 270 mg/L of sodium should not be used for drinking by people on moderately restricted sodium diets.

¹⁰ The NCDOH recommends that the Langelier Saturation Index (for corrosivity) be as close to zero as possible.

¹¹NCDOH guidelines recommend a pH range of 7.0 – 8.5. The running annual average of all pH readings in the distribution system taken during routine bacteriological testing was **7.10 units** in 2020.

*See public notification attached for 1,4 dioxane information.

Unregulated Contaminant Monitoring Rule (UCMR4):

The following parameters were tested for as per a required USEPA monitoring program (2018 – 2020) to try to quantify the presence and amount of emerging or unregulated compounds to see if any should be regulated by the EPA in the future. Unregulated contaminants are those for which USEPA has not established drinking water standards for. The purpose of unregulated contaminant monitoring is to assist USEPA in determining the occurrence of these constituents in drinking water and whether future regulation is warranted. (No Federal MCL's exist for these parameters to-date, although some might be already regulated by the NYSDOH.)

The following contaminants that we tested for on the treated water exiting our treatment plants ("Entry Point" locations) were detected as follows:

-		-		•
Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
Manganese (ppb)	2018	37	ND - 37	Naturally occurring
Germanium (ppb)	2018	0.41	ND - 0.41	Naturally occurring

The following contaminants that we tested for on the raw water wells were detected as follows:

Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
Bromide (ppb)	2018	190	ND - 190	Naturally occurring
Total Organic Carbon (ppb)	2018	901.5	ND - 901.5	Naturally occurring

The following contaminants that we tested for on distribution system locations were detected as follows:

0		3		
Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
Total Haloacetic Acids – UCMR4 (ppb)	2018	0.83	ND - 0.83	By-product of drinking water disinfection
Total Haloacetic Acids – Bromide-related (ppb)	2018	0.38	ND - 0.38	By-product of drinking water disinfection

Total Haloacetic Acids for UCMR4 include the sum of the following contaminant combinations: Monochloroacetic acid, Monobromoacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromochloroacetic acid, Dibromoacetic acid, Bromodichloroacetic acid, Chlorodibromoacetic acid, Tribromoacetic acid.

Unregulated Contaminant Monitoring Rule (UCMR4) - Listing of Non-Detected (ND) Contaminants (2018):

The following contaminants that we tested for under UCMR4 Monitoring Program were "Non-detected" (ND):

Alcohols:	Pesticides and byproducts:
1-butanol	Alpha-Hexachlorocyclohexane
2-methoxyethanol	Chlorpyrifos
2-propen-1-ol	Dimethipin
	Ethoprop
Semi-Volatile Chemicals:	Oxyfluorfen
Butylated hydroxyanisole (BHA)	Profenofos
o-toluidine	Tebuconazole
Quinolone	Total Permethrin (cis- & trans-)
	Tribufos

Unregulated Contaminant Monitoring Rule (UCMR3):

The following parameters were tested for as per a required USEPA monitoring program (2013 - 2015) to try to quantify the presence and amount of emerging or unregulated compounds to see if any or all of them should be regulated by the USEPA in the future (No MCL's for these parameters to-date).

The following contaminants that we tested for on the treated water exiting our treatment plants ("Entry Point" locations) were detected as follows:

Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
1,4-Dioxane (ppb) *	2017-2019	1.35	ND - 1.35	Manufacturing solvent

*NYS guidance level for 1,4-dioxane was 1.0 ppb before new regulations were put into effect in August of 2020. Special 1,4-dioxane sampling was performed on raw water wells in 2017-2019 by the water company for proactive, informational, and quality control purposes only, and not due to any regulatory requirement.

USEPA Health Advisory Definitions:

Health advisories provide information on contaminants that can cause human health effects and are known or anticipated to occur in drinking water. EPA's Health Advisories are non-enforceable and non-regulatory and provide technical information to states agencies and other public health officials on health effects, analytical methodologies, and treatment technologies associated with drinking water contamination.



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Special Message about new Regulations on Emerging Contaminants by NYSDOH:

On August 26, 2020, NYS adopted new drinking water standards for public water systems that set maximum contaminant levels (MCLs) of 10 parts per trillion (ppt) each for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), and 1 part per billion (ppb) for 1,4-dioxane.

About Drinking Water Standards and MCLs

A MCL is the highest level of a contaminant allowed in drinking water delivered by public water systems. They are enforceable regulatory limits. MCLs are set far below levels that cause health effects. According to the NYSDOH, because MCLs are set at levels with a large margin of protection, an exceedance of an MCL does not mean that water is unsafe for use while the public water system takes actions to reduce the levels.

The USEPA has also established guidance for the presence of PFOA and PFOS in drinking water. The EPA has established a nonenforceable health advisory level of 70 parts per trillion (ppt) for the sum of PFOA and PFOS. An MCL for 1,4-Dioxane in drinking water has not been established by the EPA.

What Are Emerging Compounds?

1,4-Dioxane is a synthetic industrial chemical that is present in many goods, including paint strippers, dyes, greases, antifreeze, and aircraft deicing fluids, and in some consumer products such as deodorants, shampoos and cosmetics.

PFOA/PFOS are per- and polyfluoroalkyl substances (PFAS), which are a group of man-made chemicals that can be found in food packaging; commercial household products, including stain- and water-repellent fabrics (ex: Scotchgard), nonstick products (e.g., Teflon), polishes, waxes, paints, and cleaning products; and fire-fighting foams.

Emerging compounds can enter our water resources after being landfilled, spilled, discharged as waste, or by seepage and infiltration into the water table, eventually entering water supplies.

NYAW's Action Plan

In advance of the adoption of these new standards by the State, New York American Water tested its entire water supply to determine the presence of these emerging compounds.

NYAW determined that, of the 55 sites that supply water across NYAW's service areas in Long Island and upstate New York, one site in your district has detections of emerging compounds above the NYS MCLs. Detections of 1,4-Dioxane at the Seamans Neck Well Station in North Wantagh/Levittown at 1.4 ppb. NYAW is pursuing Advanced Oxidation Process (AOP) treatment for 1,4-Dioxane at the Seamans Neck Well Station. NYAW has completed our AOP pilot testing and is working closely with the NCDOH on final treatment design. While AOP treatment will take time to fully install, NYAW's proactive approach has significantly reduced the time needed to install the right treatment system for our customers served by the Seamans Neck Well Station. Please see Public Notification below.

NYAW is pursuing the appropriate treatment where needed. While new treatment will take time to fully install, NYAW's proactive approach has significantly reduced the time needed to install the right treatment system for our customers.

When a public water system (PWS) is issued a deferral, the water system agrees to a schedule for corrective action and compliance with the new PFOS, PFOA, or 1,4-dioxane MCL's. In exchange, the NYSDOH agrees to defer enforcement actions, such as assessing fines, if the PWS is meeting established deadlines. Deferral recipients are required to update the Department and the NCDOH each calendar quarter on the status of the established deadlines. The Department can resume enforcement if the agreed upon deadlines are not met. Information about our deferral and established timelines can be found at the following site: https://www.amwater.com/nyaw/water-quality/Emerging-Compounds/seamans-neck



IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER Deferral Issued for 1,4-Dioxane to New York American Water (NYAW) – Merrick

Why are you receiving this notice/information?

You are receiving this notice because testing of our public water system found the chemical 1,4-Dioxane in your drinking water above New York State's maximum contaminant level (MCL) of 1 ppb for 1,4-dioxane. The MCLs are set well below levels known to cause health effects in animal studies. Therefore, consuming water with 1,4-dioxane at the level detected does not pose a significant health risk. Your water continues to be acceptable for all uses.

NYAW - Merrick has submitted, and the New York State Department of Health (Department) has issued, a deferral to NYAW - Merrick. When a public water system is issued a deferral, the water system agrees to a schedule for corrective action and compliance with the new MCLs. In exchange, the Department agrees to defer enforcement actions, such as assessing fines, if the water system is meeting the established deadlines. We are required to update the Department and the Nassau County Department of Health each calendar quarter on the status of our projects. If we do not meet the agreed upon deadlines, the Department can resume enforcement.

What are the health effects of 1,4-dioxane?

Laboratory studies show that 1,4-dioxane caused liver cancer in animals exposed at high levels throughout their lifetime. Other types of cancer have also been reported, although less consistently than liver cancer. There is no evidence of 1,4-dioxane cancer effects in humans. The United States Environmental Protection Agency considers 1,4- dioxane a likely human carcinogen based upon studies of animals exposed to high levels of this chemical over their entire lifetimes. At the level of 1,4-dioxane detected in your water, exposure from drinking water and food preparation is well below 1,4-dioxane exposures associated with health effects.

What is New York State doing about 1,4-Dioxane in public drinking water?

The New York State Department of Health (NYS DOH) has adopted a drinking water regulation that requires all public water systems to test for 1,4-dioxane. If found above the MCLs, the water supplier must take steps to lower the level to meet the standard. Exceedances of the MCL signal that steps should be taken by the water system to reduce contaminant levels.

What is being done to remove these contaminants?

NYAW - Merrick is in the process of installing treatment to remove 1,4-dioxane at our Seamans Neck Road Facility and will operate impacted wells in a last on first off sequence to minimize exposure to 1,4-Dioxane. Additional information will be shared as further testing and progress occurs. This process is similar for any chemical detected in public drinking water that requires mitigation. The compliance timetable will ensure that your drinking water will meet the MCL as rapidly as possible. The deferral is effective until August 25, 2022.

Where can I get more information?

For more information, please contact our Customer Service Center at 1-877-426-6999 or Natasha Niola, Water Quality Manager at 516-632-2239. You can also contact the Nassau County Health Department at (516) 227-9692. If you have additional questions about these contaminants and your health, talk to your health care provider who is most familiar with your health history and can provide advice and assistance about understanding how drinking water may affect your personal health.

Public Water System ID#: NY2902840 Date: January 21, 2021



Listing of Non-Detected (ND) Contaminants – 2020 (SA2 - Merrick Operations):

Volatile Organic Compounds

(VOC's):

Benzene

Bromobenzene

Bromomethane

n-Butvlbenzene

sec-Butvlbenzene

tert-Butylbenzene

Carbon Tetrachloride

Bromochloromethane

None of the following compounds that we analyzed for were detected in your drinking water at the respective method detection levels:

Microbiological: E.coli

Inorganics & Physical:

Ammonia as N Cyanide, free Fluoride Nitrite as N Perchlorate Surfactants (as MBAS) Turbidity

Metals:

Antimony Arsenic Beryllium Cadmium Chromium Mercury Selenium Silver Thallium Zinc

Miscellaneous: Asbestos fibers Chlorobenzene Chloroethane Chloromethane Chlorodifluoromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1.2-Dichlorobenzene 1,3-Dichlorobenzene 1.4- Dichlorobenzene (Meta) Dichlorodifluormethane 1.1-Dichloroethane 1.2-Dichloroethane 1,1-Dichloroethane cis-1.2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1.3-Dichloropropane 2.2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene Hexachlorobutadinene Isopropylbenzene 4-Isopropyltoluene Methyl Tert Butyl Ether (MTBE) Methylene Chloride (Dichloromethane) n-Propylbenzene Styrene 1,1,2-trichloro 1,2,2trifluoroethane 1,1,1,2-Tetrachloroethane 1.1.2.2-Tetrachloroethane Tetrachloroethene (PCE) Toluene 1.2.3-Trichlorobenzene 1,2,4-Trichlorobenzene 1.1.1-Trichloroethane 1,1,2-Trichloroethane Trichlorofluoromethane 1.2.3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene M-Xylene 0-Xylene P-Xylene Vinvl Chloride

Synthetic (Specific) Organic Compounds (SOC's)* Regulated Group #1:

Alachlor Aldicarb Aldicarb Sulfone Aldicarb Sulfoxide Atrazine Carbofuran Chlordane, Total 1,2-Dibromo-3-Chloropropane (DBCP) 2,4-D Endrin 1,2-Dibromomethane (EDB) Heptachlor Heptachlor Epoxide Lindane Methoxychlor PCB's Pentachlorophenol Toxaphene 2,4,5-TP (Silvex)

Regulated Group #2:

Aldrin Benzo(a)pyrene Butachlor Carbaryl Dalapon Di (2-Ethylhexyl) adipate Di (2-Ethylhexyl) phthalalte Dicamba Dieldrin Dinoseb Diquat Endothall Glyphosate Hexachlorobenzene Hexachlorocyclopentadiene 3-Hydroxycarbofuran Methomyl Metolachlor Metribuzin Oxamyl (Vydate) Picloram Propachlor Simazine 2,3,7,8-TCDD (Dioxin)

* Synthetic (Specific) Organic

Compounds (SOC's) are mainly Pesticides and Herbicides, and are required to be tested on raw water wells, and not on distribution locations, as per NCDOH requirements.

Unregulated Contaminant Monitoring Rule (UCMR3):

The following parameters were tested for as per a required USEPA monitoring program (2013 - 2015) to try to quantify the presence and amount of emerging or unregulated compounds to see if any should be regulated by the EPA in the future.

The following contaminants that we tested for on the treated water exiting our treatment plants ("point of entry" locations) were "Nondetected" (ND):

UCMR3 Volatile Organic Compounds (VOC's) Group (all ND):

1,1-Dichloroethane 1,2,3-Trichloropropane 1,3-Butadiene Bromochloromethane (halon1011) Bromomethane Chlorodifluoromethane Chloromethane UCMR# Perfluorinated Compounds Group (all

Compounds Group (all ND): Perfluorooctanesulfonin acid

(PFOS) Perfluorooctonoic acid (PFOA) Perfluorononanoic acid (PFNA) Perfluorohexanesulfonic acid (PFHxS) Perfluoroheptanoic acid (PFHpA) Perfluorobutanesulfonic acid (PFBS) UCMR3 Hormones Group

UCMR3 Hormones Group (all ND):

Estradiol (17beta-) Equilin 4-Androstene-3,17-dione Estrone Ethynylestradiol (ethinyl estradiol) Hydroxyestradiol Testosterone



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RESULTS TO PROVE IT

We have an exceptional track record when it comes to water quality and drinking water regulatory compliance. That's why we invite you to read our latest Water Quality Report, specifically for your local community.



newyork American Water

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PROVIDING SAFE, QUALITY WATER SERVICE

- Our drinking water meets or surpasses all primary state and federal standards, including regulations related to lead.
- Statewide, we perform thousands of tests each year on the water before it leaves our treatment plants, plus a significant number of tests in the distribution system.
- Our team of water quality experts sample and interpret data regularly, following state quality control standards. Our team utilizes certified labs across the state to process and analyze these samples. We sample above and beyond the required regulations provided by the USEPA and the local health departments.

See how we're doing in your community.

Every year, we provide a detailed analysis of the water we deliver to our communities in our Water Quality Reports. To learn more about our commitment to water quality or to view the Water Quality Report for your area, visit us online at **newyorkamwater.com**. Under Water Quality, select Water Quality Reports.

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2022 Consumer Confidence Report on Water Quality for 2021

Annual Water Quality Report

Merrick Operations District

Public Water Supply ID# NY2902840



Message from the President

Providing customers with safe, quality drinking water is a top priority for Liberty, and we are proud to present this Water Quality Report (Consumer Confidence Report) that shares detailed information regarding local water service and our compliance with state and federal quality standards during the 2021 calendar year.

Liberty makes significant investments each year to ensure the water we deliver to customers meets all Safe Drinking Water Act (SDWA) standards established by the United States Environmental Protection Agency (EPA) and New York State Department of Health (NYSDOH). We invest responsibly in order to maintain the local water infrastructure, because strong infrastructure is a key factor in delivering quality water. Additionally, we have a top-notch water quality program that ensures the water delivered to your home or business is thoroughly tested by independent laboratories and the data is provided to the state to verify compliance with all applicable SDWA and NYSDOH water regulations.

We know our customers rely on us to make sure the water at their tap is safe to drink, and we take that responsibility seriously. Our employees live in the local community and take great pride in providing quality water and reliable service to you and your neighbors.

If you have any questions about the information within this report, please don't hesitate to contact us anytime at 1-877-426-6999 TDD:711. We encourage you to visit our website at <u>www.libertyenergyandwater.com</u> to stay up-to-date and receive tips about water conservation and more.

On behalf of the entire Liberty family, thank you for being a valued customer and neighbor. We are proud to be your water provider.

Sincerely, Chris Alario President, Liberty New York Water

To request a printed copy of this report, please call us at 1-877-426-6999 TDD:711. This report can also be found at <u>www.libertyenergyandwater.com</u>.





Where Does My Water Come From?

Communities Served

Bellmore East Massapequa* Levittown* Massapequa* Merrick North Bellmore North Merrick North Seaford North Wantagh Seaford Wantagh *community partially served

Source, Quality & Quantity

Groundwater is the source of your drinking water supply. It is drawn from 16 wells located in the aquifer system beneath the land surface.

The Aquifers

The aquifers are water-bearing geologic deposits of sand and clay that absorb and store about 45 percent of the rain and snow that fall on Long Island. Merrick Operations Center has wells in the Magothy aquifer.



Not to scale If you have a private well which is unregulated and untested, you should not use the water for drinking or cooking. (Source: NCDOH)

Be Water Smart – Think Conservation

The New York State Department of Environmental Conservation requested that all Long Island water suppliers reduce their peak pumpage by 15 percent to ensure the long-term sustainability of the Long Island aquifer. Our customers must conserve water to help us achieve this goal. When our customers conserve, not only do they reduce their water bill, but Liberty is able to defer infrastructure investment projects that are needed to meet peak water demand, which can reach as high as 50 million gallons of water a day in the summer.



The following suggestions will help you make your home "water efficient" without sacrificing comfort or changing lifestyles:

- Install smart irrigation technology on your irrigation system to irrigate as efficiently as possible.
- Install a moisture sensor on your irrigation system to
 prevent wasteful watering during or just after a rain.
- Use native, drought-resistant shrubs, trees, plants, and grasses in your landscape.
- Run dishwashers and washing machines only with full loads.
- Turn off the tap when brushing your teeth or shaving.
- Check every faucet for leaks. Even a slow drip can waste 15 to 20 gallons a day, or about 6,000 gallons a year.
- If you suspect that you have a water leak, order our free Leak Detection Kit. The kit contains information, hints and dye tablets to help you determine if you have a wasteful water loss. Call our customer call center or 516-632-2236 to order.
- Replace older devices with water-saving showerheads, faucets, or low flush toilets. A normal showerhead uses 5 to 7 gallons a minute. Switching to a low-flow model that uses 1.5 gallons a minute can save a family thousands of gallons of water a year.



Source Water Assessment

The NYSDOH, with assistance from the local health department and the CDM consulting firm, has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how rapidly contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well's contributing area and the likelihood that the contaminant can travel through the environment to reach the well. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is or will become contaminated. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected (if any). The source water assessments provide resource managers with additional information for protecting source waters into the future.

Drinking water is derived from 16 wells. The source water assessment has rated most of the wells as having a very high susceptibility to nitrates. The elevated susceptibility to industrial solvents is due primarily to point sources of contamination related to transportation routes and commercial/ industrial facilities and related activities in the assessment area. The high susceptibility to nitrate contamination is attributable to residential, commercial, and institutional land use and related practices in the assessment area, such as fertilizing lawns.

How is Your Water Treated?

Our water supply is obtained from wells located throughout our service area, and average about 500 feet in depth. In our area of southeastern Nassau County, the soil has naturally high iron



and mineral content. The water dissolves these naturally occurring minerals, and while they are not health hazards, they can cause discolored water issues.

Bacteriological pollutants are not usually present in wells at the average depth of 500 feet and, consequently, water directly from the well is drinkable. However, water treatment is required to protect the water in the distribution system and to minimize discolored water conditions.

Treatment consists of:

1. Chlorination for bacteriological disinfection (using Sodium Hypochlorite).

2. Caustic Soda (Sodium Hydroxide) to raise pH and minimize corrosivity to water mains and household plumbing.

 Filtration to remove iron at three well locations.
 Calciquest (Phosphate compound) to stabilize or sequester the iron not removed by filtration, and to act as a corrosion control inhibitor.
 Granular Activated Carbon (GAC) to remove organics at one well location (US Navy / Northrop-Grumman plume site).

We take steps to reduce the potential for lead to leach from your pipes into the water. This is accomplished by adding a corrosion inhibitor (Calciquest is an Orthophosphate compound) to the water leaving our treatment facilities.

What are Drinking Water Standards?

Drinking water standards are the regulations set by the USEPA to control the level of contamination in the nation's drinking water. The USEPA and the NYSDOH are the agencies responsible for establishing drinking water quality standards in New York. This approach includes assessing and protecting drinking water sources; protecting wells and surface water; making sure water is treated by qualified operators; ensuring the integrity of the distribution system; and making information about water quality available to the public. The water delivered to your home meets the standards required by the USEPA and the NYSDOH.

This report describes those contaminants that have been detected in the analyses of almost 200 different potential contaminants, nearly 100 of which are regulated by the USEPA and the NYSDOH.

Liberty is proud to tell you that there is only one contaminant that exceeds any federal or state drinking water standards (see last page of this document). Hundreds of samples analyzed every month by Liberty's contract certified laboratory assures that all primary (health-related) drinking water standards are being met. Sample results are available on the Table in this report.

This report is intended to provide information for all water users. If received by an absentee landlord, a business, or a school, please share the information with tenants, employees, or students. We are happy to make additional copies of this report available. You may also access this report on the Liberty web page at www.libertyenergyandwater.com.

Substances That Could be in Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams,

ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic Contaminants, such as salts and metals, which can be naturally- occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwaterrunoff, and septic systems.

Radioactive Contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the USEPA and the NYSDOH prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (USFDA) also establishes limits for contaminants in bottled water that provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA Safe Drinking Water Hotline at 1-800-426-4791 or visiting their website at https://www.ground-water-and-drinkingwater/national-primary-drinking-waterregulations. For information on bottled water visit the USFDA website at www.fda.gov.

Do I Need to Take Special Precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The USEPA and Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial *contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.*

Cryptosporidiosis & Giardiasis

Although there have been no cases of Cryptosporidiosis in Nassau County attributable to the water supply, we thought you should be aware of the risks to people with severely weakened immune systems. Cryptosporidiosis and Giardiasis are intestinal illnesses caused by microscopic parasites that can be transmitted several ways including through drinking water. Cryptosporidiosis can be very serious for people with weak immune systems, such as transplant patients; individuals receiving chemotherapy or dialysis, and people with Crohn's disease or HIV infection. Individuals who think they may have been exposed to Cryptosporidiosis or Giardiasis should contact their health care providers immediately.

Immuno-compromised patients who may have been advised by their health care provider that they may be at risk, especially when traveling, should observe the following:

- One minute of boiling water at a rolling boil will kill *Cryptosporidium parvum* and *Giardia lamblia*.
- Drinking bottled water does not guarantee that the water is free from Cryptosporidiosis or Giardiasis.

Contact your health care provider about your options. If you have questions, contact the NCDOH at 516-227-9692.

Lead & Copper Rule Statements

The Lead and Copper Rule requires sampling for lead and copper at the tap. In 1992, the first-year testing was required; tap water was sampled in compliance with EPA regulations. Test results were excellent: at least 90 percent of the lead tests were well below 10 parts per billion, and for copper, below 0.3 parts per million, indicating that the company's corrosion control treatment processes continue to be effective. The same tests were done roughly every three years from 1997 through 2020 with similar results. The next round of homeowner monitoring for the Lead and Copper Rule will be completed in the summer of 2023.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Liberty is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in drinking water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at

http://www.epa.gov/safewater/lead.

System Improvements

In 2021, we continued to make significant upgrades to our system and infrastructure. These improvements include:

- Replaced 14,930 feet of water main throughout the service territory.
- Replaced 2 fire hydrants.
- Replaced 103 service lines.
- Replaced 4,619 water meters.
- Completed replacement of the iron filtration media and drilled a new 3 Million-Gallon-Per-Day water supply well at the Newbridge Road Treatment Plant in North Bellmore.
- Drilled a new 3 Million-Gallon-Per-Day water supply well at the Jefferson Plant in Merrick.

 Completed design of a 6 Million-Gallon-Per-Day Advanced Oxidation Plant for removal of 1,4-Dioxane at the Seaman's Neck Treatment Plant in Wantagh.

Improvements planned for 2022 include:

- Replace approximately 11,500 feet of water main.
- Replace 3 fire hydrants.
- Replace 60 service lines.
- Replace approximately 4,992 water meters.
- Construct new well buildings at the Jefferson St.
 Plant in Merrick, and the Newbridge Plant in North Bellmore.
- Complete liner installation and rehabilitation of the 2 Million-Gallon-per-Day Newbridge Well 3 in North Bellmore.
- Complete cleaning and rehabilitation of the 3 Million-Gallon-per-Day Jerusalem Well 5 in Wantagh.
- Begin construction of the 6 Million-Gallon-Per-Day Advanced Oxidation Plant for removal of 1,4-Dioxane at the Seaman's Neck Treatment Plant in Wantagh.
- Drill replacement 3 Million-Gallon-Per-Day water supply well at the Sunrise Mall Well Site in Massapequa.

2021 STATISTICS AT-A-GLANCE

Wells Closed/Restricted	None
Violations of Standards	None
Typical Well Depth	500 Feet
Aquifers	Magothy
Pumping Stations	12
Service Area	20 Square Miles
Total Water Withdrawn	5,120,694,000 Gal.
Total Water Sales	4,815,383,000 Gal.
Population Served (approx.)	135,000
Customers Served (accounts)	45,018
Miles of Mains	433

Average Residential Usage & Cost

In 2021, the average residential household used approximately 106,965 gallons of water at a cost of about \$656, or \$1.80 a day. With an average of 3.0 persons per household, the cost of water was about 60c a day per person.

How Might I Become Actively Involved?

Customers can participate in decisions that may affect the quality of water by:

- Reading the information provided in bill inserts and special mailings
- Contacting the company directly with questions or to discuss issues
- Responding to survey requests
- Attending presentations by the company made to local community and civic associations
- Contacting agencies such as the Nassau County Health Department (NCDOH) at 516-227-9692

Important Health Information

Lead

Lead, in drinking water, is primarily from materials and components associated with service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. We are responsible for providing high-quality drinking water, but we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by



flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

1,4 dioxane

Laboratory studies show that 1,4 dioxane caused liver cancer in animals exposed at high levels throughout their lifetime. Whether 1,4 dioxane causes cancer in humans is unknown. The United States Environmental Protection Agency considers 1,4 dioxane as likely to be carcinogenic to humans based upon studies of animals exposed to high levels of this chemical over their entire lifetimes.

Is Our Water System Meeting Other Rules That Govern Our Operations?

During 2021, our system was in compliance with applicable NYS drinking water operating, monitoring and reporting requirements. If you have questions about this report, please contact our Water Quality Manager at 516-632-2239.



Testing Results

During the year, Liberty collects water samples to determine the presence of any radioactive, biological, inorganic, or organic contaminants. All of the substances listed in the table below tested under the Maximum Contaminant Level (MCL). Liberty believes it is important you know what was detected, and how much of the substance was present. The state allows the monitoring of certain substances less than once a year because the concentrations of these substances do not change frequently. If a substance was tested and there was no detection, it is not listed in this table. You can find Definitions, Terms and Abbreviations related to this Table in the next section for easy reference.

Table of Detected Contaminants									
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination		
Microbiological									
Total Coliform (% positive samples in any given month)	Ν	One positive sample on 06/01, 07/21, & 11/10	0.81% each month	units	N/A	TT => 5% samples positive in a month	Naturally present in the environment.		
Inorganic Contamina	Inorganic Contaminants (source: raw water wells)								
Iron ¹	Ν	06/2021	0.19 – 1.2	mg/L	N/A	0.3	Naturally occurring.		
Barium	Ν	05/2021	ND - 0.0083	mg/L	2	2	Erosion of natural deposits.		
Chloride	Ν	07/2021	3.1 – 18.1	mg/L	N/A	250	Natural occurring or indicative of road salt contamination.		
Lead	Ν	07/2021	ND – 4.9	ug/L	0	AL - 15	Erosion of natural deposits.		
Copper	Ν	05/2021	ND – 0.029	mg/L	N/A	1.3	Erosion of natural deposits.		
Sodium ²	Ν	05/2021	2.4 – 12.3	mg/L	N/A	See Health Effects	Naturally occurring; Road salt; Water softeners.		
Color	Ν	05/2021	ND – 6	units	N/A	15	Natural color may be caused by decaying leaves, plants, and soil organic matter.		
Odor	Ν	07/2021	ND – 2	units	N/A	3	Natural color may be caused by decaying leaves, plants, and soil organic matter.		
Manganese ³	Ν	03/2021	ND – 0.057	mg/L	N/A	0.3	Naturally occurring.		
Nickel	Ν	05/2021	0.0013 - 0.0083	ug/L	N/A	N/A	Naturally occurring.		
Zinc	Ν	07/2021	ND – 0.081	mg/L	N/A	5	Naturally occurring.		
Thallium	Ν	07/2021	ND – 0.42	ug/L	0.5	2	Leaching from ore processing sites; Discharge from electronics, glass, and drug factories.		
Fluoride ⁴	Ν	08/2021	ND – 0.11	mg/L	N/A	2.2	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories.		
Sulfate	Ν	05/2021	ND – 28.4	mg/L	N/A	250	Naturally occurring.		
Nitrate	Ν	07/2021	ND – 0.14	mg/L	10	10	Erosion of natural deposits, fertilizers,		
							sanitary waste systems.		
Organic Contaminants (source: raw water wells)									
Trichloroethene (TCE) ⁵	N	01/2021	ND – 3.6	ug/L	0	5	Discharges from metal degreasing sites and other factories.		
1,4 dioxane ⁶	Ν	Quarterly 2021	ND – 2.0	ug/L	N/A	1.0	Released into the environment from commercial and industrial sources and is associated with inactive and hazardous waste sites.		



Table of Detected Contaminants								
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination	
Radiological Contami	inants <mark>(f</mark>	ootnote 7) (se	ource: raw water w	ells)				
Gross Alpha	Ν	07/2021	ND – 2.2	pCi/L	0	15		
Combined Radium- 226 and 228	N	07/2021	ND – 2.2	pCi/L	0	5	Erosion and decay of natural deposits.	
Gross Beta	Ν	07/2021	ND – 4.65	pCi/L	0	50 <mark>(a)</mark>	_	
Uranium	Ν	07/2021	0.016 – 0.182	ug/L	0	30 <mark>(b)</mark>		
Disinfectant/ Disinfection By-product (D/DBP) Parameters (footnote 8)								
TTHMs	N	Quarterly	ND – 5.9	mg/L	0	80	Dy product of dripking water disinfection	
HAA5's	Ν	2021	ND – ND	mg/L	0	60	By-product of drinking water disinfection.	
Chlorine	Ν	2021	0.46 – 2.14	mg/L	N/A	4	Water additive used to control microbes.	
Lead and Copper (Ta	p water a	at homeowne	r's premise) <mark>(foo</mark> t	tnote 9)				
Copper	N	07-09/2020	90 th - 0.270 0.021 – 0.340	mg/L	1.3	1.3	Corrosion of household plumbing	
Lead	N	07-09/2020	90 th - 1.4 ND – 6.6	ug/L	0	15	systems.	
Unregulated Substances and Physical Parameters								
Ammonia	Ν	07/2021	ND – 0.1	mg/L	N/A	N/A	N/A	
Alkalinity	Ν	08/2021	ND – 48.8	mg/L	N/A	N/A	N/A	
Calcium Hardness	Ν	07/2021	ND – 12.5	mg/L	N/A	N/A	N/A	
Calcium	Ν	07/2021	ND – 5.0	mg/L	N/A	N/A	N/A	
Corrosivity 10	N	07/2021	(-7.89) – (-6.02)	Langelier Index	N/A	N/A	N/A	
Hardness, Total	Ν	07/2021	ND – 20.7	mg/L	N/A	N/A	N/A	
Magnesium	N	03/2021	ND – 9.2	mg/L	N/A	N/A	N/A	
рН <mark>11</mark>	Ν	04/2021	6.7 – 7.7	units	N/A	N/A	N/A	
TDS	Ν	07/2021	ND - 170	mg/L	N/A	N/A	N/A	

Notes:

- 1- Higher levels of iron (up to 1,000 ppb) may be allowed by the state when justified by the water supplier, as is the case with Merrick Operations district. The Total of iron and manganese should not exceed 500 ppb, unless allowed by the state, as is the case with Merrick Operations district. The maximum level detected above is on a well that has iron removal filtration prior to distribution. Iron is essential for maintaining good health. However, too much iron can cause adverse health effects. Drinking water with very large amounts of iron can cause nausea, vomiting, diarrhea, constipation and stomach pain. These effects usually diminish once the elevated iron exposure is stopped. A small number of people have a condition called hemochromatosis, in which the body absorbs and stores too much iron. People with hemochromatosis may be at greater risk for health effects resulting from too much iron in the body (sometimes called "iron overload") and should be aware of their overall iron intake.
- 2- Water containing more than 20 mg/L of sodium should not be used for drinking by persons on severely restricted sodium diets. Water containing more than 270 mg/L of sodium should not be used for drinking by people on moderately restricted sodium diets.
- 3- Manganese is an essential nutrient that is necessary to maintain good health. However, exposure to too much manganese can cause adverse health effects. There is some evidence from human studies that long-term exposure to manganese in drinking water is associated with nervous system effects in adults (e.g., weakness, stiff muscles and trembling of the hands) and children (learning and behavior). The results of these studies only suggest an effect because the possible influences of other factors were not adequately assessed. There is supporting evidence that manganese causes nervous system effects in humans from occupational studies of workers exposed to high levels of manganese in air, but the relevance of these studies to long term drinking water exposure is less clear because the exposures were quite elevated and by inhalation, not by ingestion.
- 4- Fluoride was detected in one well. The well was resampled and fluoride was not detected.
- 5- TCE-Some people who drink water containing trichloroethylene in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer. Please note that the raw wells with detections of TCE are treated with Granular Activated Carbon (GAC). The water being distributed to the customers does not contain TCE.
- 6- 1,4 dioxane is a newly regulated contaminant as of August 2020. One plant in the Merrick Operations district has 1,4 dioxane levels above the MCL. NYSDOH granted Merrick Operations District a deferral. Please see public notification on last page of this report.
- 7- Radiological results are from raw water wells, and not distribution locations, as required by the NCDOH. (a) The State considers 50 pCi/L to be the level of concern for beta particles. (b) 30 μg/l of uranium is approximately 20.1 pCi/L.
- 8- TTHM's mean the sum of: Bromoform, Bromodichloromethane, Dibromochloromethane, and Chloroform. The highest 'Locational Running Annual Average" was 4.58 pbb in 2021. HAA5's include the sum of: Monochloroacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromoacetic acid, and Dibromoacetic acid. The highest 'Locational Running Annual Average" was <2.0 ppb in 2021. The running annual average of all Chlorine Residual readings in the distribution system was 1.50 ppm for 2021.</p>



- 9- The level presented represents the 90th percentile of 54 sites tested. The "action level" for copper was not exceeded at any of 54 sites tested. The level presented represents the 90th percentile of 54 sites tested. The "action level" for lead was not exceeded at any of 54 sites tested.
- 10- The NCDOH recommends that the Langelier Saturation Index (for corrosivity) be as close to zero as possible.
- 11- NCDOH guidelines recommend a pH range of 7.5 8.5. The running annual average of all pH readings in the distribution system was 7.12 units in 2021.



Definitions, Terms and Abbreviations

90th percentile: For Lead and Copper testing. 10% of test results are above this level and 90% are below this level. **AL**: Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

HAA5: Haloacetic Acids (mono-, di- and tri-chloracetic acid, and mono- and di- bromoacetic acid) as a group. **Healthy Advisory (HA)**: EPA's health advisories are non-enforceable and non-regulatory and provide technical information to states agencies and other public health officials on health effects, analytical methodologies, and treatment technologies associated with drinking water contamination.

MCLG: Maximum Contaminant Level Goal, or the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MCL: Maximum Contaminant Level, or the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MRDL: Maximum Residual Disinfectant Level, or the highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG: Maximum Residual Disinfectant Level Goal, or the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA: not applicable.

ND: not detectable at testing limits.

pCi/L: picocuries per liter, a measure of radioactivity

ppb: parts per billion or micrograms perliter.

ppm: parts per million or milligrams perliter.

RAA: Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.

Total Dissolved Solids (TDS): An overall indicator of the amount of minerals in the water.

TTHM: Total Trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane, and bromoform) as a group

What Does This Information Mean?

As you can see by the table, our system had no sample limit violations in 2021. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below New York State requirements.



Why Save Water And How To Avoid Wasting It?

Although our system has an adequate amount of water to meet present and future demands, there are a number of reasons why it is important to conserve water:

- Saving water saves energy and some of the costs associated with both of these necessities of life;
- Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions so that essential firefighting needs are met.

You can play a role in conserving water by becoming conscious of the amount of water your household is using, and by looking for ways to use less whenever you can. It is not hard to conserve water. Conservation tips include:

- Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- Turn off the tap when brushing your teeth.
- Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.

Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you save more than 30,000 gallons a year.

Closing

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers help us protect our water sources. For questions concerning this report or your water quality, please contact Natasha Niola, Water Quality Manager, at 516-632-2239 or Liberty Customer Service at 1-877-426-6999 TDD:711; or on the web at <u>www.libertyenergyandwater.com</u>.

Liberty - New York Water 60 Brooklyn Avenue Merrick, NY 11566



Listing of Non-Detected (ND) Contaminants – 2021 (Merrick Operations)

None of the following compounds that we analyzed for were detected in your drinking water at the respective method detection levels:

Microbiological:

E.coli

Inorganics & Physical:

Ammonia as N Cyanide, free Nitrite as N Perchlorate Surfactants (as MBAS) Turbidity

Metals:

Antimony Arsenic Beryllium Cadmium Chromium Mercury Selenium Silver

Miscellaneous:

Asbestos fibers

Volatile Organic Compounds (VOC's):

Benzene Bromobenzene Bromochloromethane Bromomethane n-Butvlbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane Chlorodifluoromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1.4- Dichlorobenzene (Meta) Dichlorodifluormethane 1.1-Dichloroethane 1,2-Dichloroethane 1.1-Dichloroethane cis-1,2-Dichloroethene

trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1.3-Dichloropropene Ethylbenzene Hexachlorobutadinene Isopropylbenzene 4-Isopropyltoluene Methyl Tert Butyl Ether (MTBE) Methylene Chloride (Dichloromethane) n-Propylbenzene Styrene 1,1,2-trichloro 1,2,2-trifluoroethane 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene (PCE) Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1.1.2-Trichloroethane Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene M-Xylene O-Xylene P-Xylene Vinyl Chloride

Synthetic (Specific) Organic Compounds (SOC's) Regulated Group #1: Alachlor Aldicarb

Aldicarb Sulfone Aldicarb Sulfoxide Atrazine Carbofuran Chlordane, Total 1,2-Dibromo-3-Chloropropane (DBCP) 2,4-D Endrin 1,2-Dibromomethane (EDB) Heptachlor Heptachlor Heptachlor Epoxide Lindane Methoxychlor PCB's Pentachlorophenol Toxaphene 2,4,5-TP (Silvex)

Regulated Group #2:

Aldrin Benzo(a)pyrene Butachlor Carbaryl Dalapon Di (2-Ethylhexyl) adipate Di (2-Ethylhexyl) phthalalte Dicamba Dieldrin Dinoseb Diquat Endothall Glyphosate Hexachlorobenzene Hexachlorocyclopentadiene 3-Hydroxycarbofuran Methomyl Metolachlor Metribuzin Oxamyl (Vydate) Picloram Propachlor Simazine 2,3,7,8-TCDD (Dioxin)

Newly regulated compounds

Perfluorooctanoic acid (PFOA) Perfluorooctanesulfonic acid (PFOS)

Unregulated compounds:

PFAS Compounds: Perfluorobutanesulfonic acid (PFBS) Perfluoronononic Acid (PFNA) Perfluorodeconoic Acid (PFDA) Perfluorohexanoic Acid (PFHxA) Perfluoroheptanoic Acid (PFHpA) Perfluorohexanesulfonic acid (PFDA) Perfluorotridecanoic Acid (PFTDA) Perfluorotetradecanoic Acid (PFTA) Perfluoroundecanoic Acid (PFTA)

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Deferral Issued for 1,4-Dioxane to New York American Water (NYAW) – Merrick

Why are you receiving this notice/information?

You are receiving this notice because testing of our public water system found the chemical 1,4-Dioxane in your drinking water above New York State's maximum contaminant level (MCL) of 1 ppb for 1,4-dioxane. The MCLs are set well below levels known to cause health effects in animal studies. Therefore, consuming water with 1,4-dioxane at the level detected does not pose a significant health risk. Your water continues to be acceptable for all uses.

NYAW - Merrick has submitted, and the New York State Department of Health (Department) has issued, a deferral to NYAW - Merrick. When a public water system is issued a deferral, the water system agrees to a schedule for corrective action and compliance with the new MCLs. In exchange, the Department agrees to defer enforcement actions, such as assessing fines, if the water system is meeting the established deadlines. We are required to update the Department and the Nassau County Department of Health each calendar quarter on the status of our projects. If we do not meet the agreed upon deadlines, the Department can resume enforcement.

What are the health effects of 1,4-dioxane?

Laboratory studies show that 1,4-dioxane caused liver cancer in animals exposed at high levels throughout their lifetime. Other types of cancer have also been reported, although less consistently than liver cancer. There is no evidence of 1,4-dioxane cancer effects in humans. The United States Environmental Protection Agency considers 1,4- dioxane a likely human carcinogen based upon studies of animals exposed to high levels of this chemical over their entire lifetimes.

At the level of 1,4-dioxane detected in your water, exposure from drinking water and food preparation is well below 1,4-dioxane exposures associated with health effects.

What is New York State doing about 1,4-Dioxane in public drinking water?

The New York State Department of Health (NYS DOH) has adopted a drinking water regulation that requires all public water systems to test for 1,4-dioxane. If found above the MCLs, the water supplier must take steps to lower the level to meet the standard. Exceedances of the MCL signal that steps should be taken by the water system to reduce contaminant levels.

What is being done to remove these contaminants?

NYAW - Merrick is in the process of installing treatment to remove 1,4-dioxane at our Seamans Neck Road Facility and will operate impacted wells in a last on first off sequence to minimize exposure to 1,4-Dioxane. Additional information will be shared as further testing and progress occurs. This process is similar for any chemical detected in public drinking water that requires mitigation. The compliance timetable will ensure that your drinking water will meet the MCL as rapidly as possible. The deferral is effective until August 25, 2022.

Where can I get more information?

For more information, please contact our Customer Service Center at 1-877-426-6999. You can also contact the Nassau County Health Department at (516) 227-9692. If you have additional questions about these contaminants and your health, talk to your health care provider who is most familiar with your health history and can provide advice and assistance about understanding how drinking water may affect your personal health.

Public Water System ID#: NY2902840 Date: January 21, 2021

For quarterly updates, please visit the following link: <u>https://new-york-water.libertyutilities.com/all/residential/safety/seamans-neck-public-notification.html</u>



ATTACHMENT C

Water Quality Data


Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Lab No. : 70242015001

Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

9

Attn To: Natasha Niola

Federal ID : 2902840 Collected : 01/03/2023 10:05 AM Point Received : 01/03/2023 04:59 PM Collected By CLIENT

TEL: (631) 694-3040 FAX: (631) 420-8436

Client Sample ID.: N-09338

N-09338

www.pacelabs.com

Location Seamanneck 4 Well

Analytical Method: EPA 300.0							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Chloride	18.1		1	mg/L	250	01/09/2023 6:00 PM	001 BP4U1/1
Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Date:	01/05/2023 2:27 PM	
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
l <mark>,4-Dioxane (p-Dioxane)</mark> Surr: 1,4-Dioxane-d8 (S)	<mark>2.1*</mark> 108%		<mark>1</mark> 1	<mark>ug/L</mark> %REC	1	<mark>01/06/2023 10:32</mark> 01/06/2023 10:32	001 AG2R1/2 001 AG2R1/2

Analytical Method: EPA 524.	2						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
2-Chlorotoluene	<0.50	L2,v3	1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Benzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		01/06/2023 2:37 PM	001 VG9C1/2
Bromoform	<0.50		1	ug/L		01/06/2023 2:37 PM	001 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2

Qualifiers:

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ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting

limit.Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 1 of 17

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-09338

Lab No. : 70242015001

Type: Drinking Water Origin: Raw Well Routine

www.pacelabs.com Liberty-NY - Merrick OPS 60 Brooklyn Avenue

TEL: (631) 694-3040 FAX: (631) 420-8436

Merrick, NY 11566 Attn To : Natasha Niola

Federal ID : 2902840

Collected : 01/03/2023 10:05 AM Point N-09338 Received : 01/03/2023 04:59 PM Location Seamanneck 4 Well Collected By CLIENT

Chlorodifluoromethane	<0.50	N3	1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Chloroform	<0.50		1	ug/L		01/06/2023 2:37 PM	001 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		01/06/2023 2:37 PM	001 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
lsopropylbenzene (Cumene)	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	01/06/2023 2:37 PM	001 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Styrene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Toluene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	01/06/2023 2:37 PM	001 VG9C1/2
Trichloroethene	4.9		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	01/06/2023 2:37 PM	001 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	01/06/2023 2:37 PM	001 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	101%		1	%REC		01/06/2023 2:37 PM	001 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	98%		1	%REC		01/06/2023 2:37 PM	001 VG9C1/2

Analytical Method: EPA 533 Prep Method: EPA 533 Prep Date: 01/06/2023 4:51 PM Parameter(s) **Results Qualifier** <u>D.F.</u> <u>Units</u> <u>Limit</u> Analyzed: Container: 11CI-PF3OUdS <1.9 1 ng/L 01/07/2023 7:06 PM 001 BP351/2 4:2 FTS <1.9 1 ng/L 01/07/2023 7:06 PM 001 BP351/2 6:2 FTS <3.7 1 ng/L 01/07/2023 7:06 PM 001 BP351/2 8:2 FTS <1.9 1 ng/L 01/07/2023 7:06 PM 001 BP351/2 9CI-PF3ONS <1.9 001 BP351/2 1 ng/L 01/07/2023 7:06 PM ADONA <1.9 ng/L 01/07/2023 7:06 PM 001 BP351/2 1 HFPO-DA 01/07/2023 7:06 PM <1.9 ng/L 001 BP351/2 1 NFDHA <1.9 ng/L 01/07/2023 7:06 PM 001 BP351/2 1

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See qualifiers page for additional qualifier definitions.

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Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 2 of 17

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-09338

Lab No. : 70242015001

Type: Drinking Water Origin: Raw Well Routine

575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID :	2902840		
Collected :	01/03/2023 10:05 AM	Point	N-09338
Received :	01/03/2023 04:59 PM	Location	Seamanneck 4 Well
Collected By	CLIENT		

PFBA	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
PFEESA	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
PFHpS	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
PFMBA	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
PFMPA	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
PFPeA	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
PFPeS	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
Perfluorobutanesulfonic acid	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
Perfluorodecanoic acid	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
Perfluorododecanoic acid	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
Perfluoroheptanoic acid	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
Perfluorohexanesulfonic acid	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
Perfluorohexanoic acid	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
Perfluorononanoic acid	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
Perfluorooctanesulfonic acid	<1.9	1	ng/L	10	01/07/2023 7:06 PM	001 BP351/2
Perfluorooctanoic acid	<1.9	1	ng/L	10	01/07/2023 7:06 PM	001 BP351/2
Perfluoroundecanoic acid	<1.9	1	ng/L		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C2-PFDoA (S)	74%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C24:2FTS (S)	76%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C26:2FTS (S)	93%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C28:2FTS (S)	92%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C3-PFBS (S)	86%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C3-PFHxS (S)	87%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C3HFPO-DA(S)	71%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C4-PFBA (S)	82%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C4-PFHpA (S)	78%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C5-PFHxA (S)	79%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C5-PFPeA (S)	80%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C6-PFDA (S)	77%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C7-PFUdA (S)	74%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C8-PFOA (S)	80%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C8-PFOS (S)	86%	1	%REC		01/07/2023 7:06 PM	001 BP351/2
Surr: 13C9-PFNA (S)	79%	1	%REC		01/07/2023 7:06 PM	001 BP351/2

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Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 3 of 17

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.

575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 <u>www.pacelabs.com</u>

WorkOrder :

70242015

Laboratory Certifications

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174 Alaska DEC- CS/UST/LUST Alabama Certification #: 41320 Colorado Certification: FL NELAC Reciprocity Connecticut Certification #: PH-0216 Delaware Certification: FL NELAC Reciprocity Florida Certification #: E83079 Georgia Certification #: 955 Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity Illinois Certification #: 200068 Indiana Certification: FL NELAC Reciprocity Kansas Certification #: E-10383 Kentucky Certification #: 90050 Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007 Maine Certification #: FL01264 Maryland Certification: #346 Massachusetts Certification #: M-FL1264 Michigan Certification #: 9911 Mississippi Certification: FL NELAC Reciprocity Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 New Hampshire Certification #: 2958 New Jersey Certification #: FL022 New York Certification #: 11608 North Carolina Environmental Certificate #: 667 North Carolina Certification #: 12710 North Dakota Certification #: R-216 Ohio DEP 87780 Oklahoma Certification #: D9947 Pennsylvania Certification #: 68-00547 Puerto Rico Certification #: FL01264 South Carolina Certification: #96042001 Tennessee Certification #: TN02974 Texas Certification: FL NELAC Reciprocity US Virgin Islands Certification: FL NELAC Reciprocity Virginia Environmental Certification #: 460165 West Virginia Certification #: 9962C Wisconsin Certification #: 399079670 Wyoming (EPA Region 8): FL NELAC Reciprocity

575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 <u>www.pacelabs.com</u>

WorkOrder :

70242015

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747 Connecticut Certification #: PH-0435 Delaware Certification # NY 10478 Maryland Certification #: 208 Massachusetts Certification #: M-NY026 New Hampshire Certification #: 2987 New Jersey Certification #: 10478 Primary Accrediting Body Pennsylvania Certification #: 10478 Primary Accrediting Body Pennsylvania Certification #: 68-00350 Rhode Island Certification #: LAO00340 Virginia Certification # 460302

575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 <u>www.pacelabs.com</u>

WorkOrder :

70242015

Additional Qualifiers

L2 - Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v3 - The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

1	Client Name or Address		: 70	1242015	San PU Collec Accep Cooler	Date: ted By: ted By:		iuest R SUPF 2/22	Form PLIER	WELL OFF LINE	TEM <u>A//</u> PRESERVED WITH HCI
ad	Phone # Attn: Proj. # o Bill To: _ Copies ⁻		rick 2 63 sha	NY 11566 2 2399 Niola	Samp PW - GW - SW - WW - AQ - S -	le Type Potable V Groundwa Surface V Vaste Wa Aqueous Soil	25 Vater ater Vater ater	Purpose RO - Rou RE - Res S - Spe	ecial	OriginTreatmeD- DistributionAST - AirRW- Raw WellGAC - GrTW- Treated WellNT- TankFE - IrcMW- Monitoring WellOI- InfluentE- Effluent	ent Types r Stripper anular Activated Charcoal trate Removal Plant on Removal Plant ther
ıge 16	Date Colle	/Time ected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field R	leadings pH/Temp	Analysis	Lab No.
of 17		11:25	GW	Seaman Nide 9 N-09338 Jerusalem 5 N-10195 Old Mill 1 N-08031	RW		RO		5.27 5.27 5.54 5.54	DFC Method 533 DChlorides	
(Remar	44:10 (rks:	30	Massaperia Le N-87414	KU				12.8		

		Sampl	e Condit	ion Upon Re	eceip	0t 	2015
Pace Analytical	Client	Name-		Pr	M	」开・1024	4/19/23
	onom	NYAW			DM .	JSB Due	Date: 01/10/23
Courier: Fed Ex UPS USPS	Com	mercial		ner	CL T	ENT: NYAW	
Tracking #:					CLI		
Custody Seal on Cooler/Box Present:	es DN	o Seal	s intact: 🗆 Y	es No AM/A		, stature biank	Present: Nest PNo
Packing Material: Bubble Wrap Bubble	Bags	Ziploc	Wone 0	ther		Type of Ice: Wet	Blue None
Thermometer Used: 1148	Corre	ction Fac	tor: + O.	1		Samples on ice cooli	no process has begun
Cooler Temperature (°C):	Coole	r Temper	ature Correc	ted[°C]:		Date/Time 5035A kit	s placed in freezer
Temp should be above freezing to 6.0°C	-	8	8				
USDA Regulated Soil LANA, water sample	8		a Stan	·-Date and Initia	ls of ne	erson examining conte	nts-KV 3hz
Did samples originate in a guaranting zone w	ithin tha	* Hotod St	1 QA IA SOLE		NC	Did samples erienate	from a forcion sources
NM NY NK NP SC TN TY or VA (check map)?			0103. AL, AN, U		, 190,	including House and	
If Yes to either question fill out a Pequilat	ر ت) انمک اید	hacklist	[E_11_C_010] :	nd include with 9	scup/c		Juerto kicuji. D Jester No
de et alter queenen, in out a kegulati		AICORIIS			JUDIQU		
Chain of Custody Present:	E Ves	ΓNΩ		1		COMMENTS.	
Chain of Custody Filled Out-	TWPS		1	2			
Chain of Custody Relinouished	DYPS			3			120
Sampler Name & Signature on COC-	DVes		ΠN/Δ	4			
Samples Arrived within Hold Time:	DVes		Cityn	5			
Short Hold Time Analysis (<72hr)	CTYPS			6			
Rush Turn Around Time Requested	TYes	DNO		7			
Sufficient Volume: (Triple volume provided for	10Yes			8.			
Correct Containers Used:	Plyes			9.			
-Pace Containers Used:	PYes					≓.	
Containers Intact:	ElYes			10.			
Filtered volume received for Dissolved tests	⊡Yes	DNo	DN/A	II. Note	if sedin	nent is visible in the diss	olved container.
Sample Labels match COC:	TYes	۵No		12.			
-Includes date/time/ID, Matrix: SL/WT 0	NL	-	1			(* *)	
All containers needing preservation have been	DYes	⊡No	DN/A	13. 🗆 HN	03	□H _z SO ₄ □NaOH	
checked?							
pH paper Lot #							
in compliances needing preservation are found	to be			Sample #			
In compliance with method recommendation?	-						
MADH-12 (Vacida)	Lives	UNO	LIN/A				1
Exceptions: VOA Californ TOC/DOC of and Ca						е эт	10
DRD/8015 (water)	ease,		1.45	laitiel when some	المغما	1 - A # - C - 1 - 1	
Per Method VOA off is checked after applying	10				neteo:		Date/Time preservative
Samples checked for dechlorination	TEVos	T-Mo	TAN/A SI	14		preservative:	190060:
KI starch test strins Int #	•		2007A L	ин. 			
Residual chlorine strins Lot #		2			for Dos	Chlorino2 V N	
SM 4500 CN samples checked for sulfide?	D Yes	ríNo	Parti /A	15	tor Kes		
Lead Acetate Strips Lot #	0100	Circo.	, En / K	Positive	for Sulf	îde? V N	
Headspace in VOA Vials (>6mm):	TYes	TNo		16			4
Trip Blank Present:	DYes	INO		17.			
Trip Blank Custody Seals Present	□Yes	⊡No	DH/A			-	
Pace Trip Blank Lot # (if applicable):			· · ·				
Client Notification/ Resolution:				Field Data Require	d?	Y / N	
Person Contacted:				Date/1	lime:		
Comments/ Resolution:		<u>, 1</u>			-		
		0					
	0						

• PM (Project Manager) review is documented electronically in LIMS.

P	Pace
1	575 Broad Hollow Road, Melville, NY 11747

Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-07407

Lab No. : 70242592001

Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

 Federal ID:
 2902840

 Collected:
 01/09/2023 09:20 AM
 Point

 Received:
 01/09/2023 05:06 PM
 Locat

TEL: (516) 370-6000 FAX: (516) 886-5526

www.pacelabs.com

Point N-07407 Location Jefferson 11 Well

Collected By CLIENT Sample Comments:

Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

Analytical Method:EPA 300.0							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Chloride	4.5		1	mg/L	250	01/18/2023 8:58 PM	001 BP4U1/1
Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Date	: 01/10/2023 1:49 PM	
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	<0.020		1	ug/L	1	01/10/2023 9:23 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	105%		1	%REC		01/10/2023 9:23 PM	001 AG2R1/2
Analytical Method: EPA 524.2							
Parameter(s)	Results	Qualifier	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Benzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		01/13/2023 11:57	001 VG9C1/2
Bromoform	<0.50		1	ug/L		01/13/2023 11:57	001 VG9C1/2

Qualifiers:

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J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting

limit.Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 1 of 9

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-07407

Lab No. : 70242592001

Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

TEL: (516) 370-6000 FAX: (516) 886-5526

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID: 2902840

Collected : 01/09/2023 09:20 AM Point N-07407 Received : 01/09/2023 05:06 PM Location Jefferson 11 Well Collected By CLIENT

www.pacelabs.com

Sample Comments:

Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

Bromomethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Chloroform	<0.50		1	ug/L		01/13/2023 11:57	001 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		01/13/2023 11:57	001 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	01/13/2023 11:57	001 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Styrene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Toluene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	01/13/2023 11:57	001 VG9C1/2
Trichloroethene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	01/13/2023 11:57	001 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	01/13/2023 11:57	001 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	108%		1	%REC		01/13/2023 11:57	001 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	91%		1	%REC		01/13/2023 11:57	001 VG9C1/2

Analytical Method: EPA 533	ļ	Prep Method:	EPA 533		Prep Date:	01/13/2023 1:15 AM		
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
11CI-PF3OUdS	<1.8		1	ng/L		01/15/2023 5:25 AM	001 BP351/2	_
4:2 FTS	<1.8		1	ng/L		01/15/2023 5:25 AM	001 BP351/2	
0								_

Qualifiers:

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limit.Estimated value - below calibration range U - Indicates the compound was analyzed for, but not detected

O - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 2 of 9

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-07407

Lab No. : 70242592001

Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID : 2902840 Collected : 01/09/2023 09:20 AM

TEL: (516) 370-6000 FAX: (516) 886-5526

Point N-07407 Received : 01/09/2023 05:06 PM Location Jefferson 11 Well Collected By CLIENT

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Sample Comments:

Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

<3.7	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L	10	01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L	10	01/15/2023 5:25 AM	001 BP351/2
<1.8	1	ng/L		01/15/2023 5:25 AM	001 BP351/2
67%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
99%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
102%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
96%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
77%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
79%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
59%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
70%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
62%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
65%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
64%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
62%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
65%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
65%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
80%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
63%	1	%REC		01/15/2023 5:25 AM	001 BP351/2
	<3.7 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<3.71 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 <1.8 1 $<1.9%$ 1 $<1.9%$ 1	<3.7	<3.7	<3.7

Qualifiers:

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page 3 of 9

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.

WorkOrder :

70242592

Laboratory Certifications

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174 Alaska DEC- CS/UST/LUST Alabama Certification #: 41320 Colorado Certification: FL NELAC Reciprocity Connecticut Certification #: PH-0216 Delaware Certification: FL NELAC Reciprocity Florida Certification #: E83079 Georgia Certification #: 955 Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity Illinois Certification #: 200068 Indiana Certification: FL NELAC Reciprocity Kansas Certification #: E-10383 Kentucky Certification #: 90050 Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007 Maine Certification #: FL01264 Maryland Certification: #346 Massachusetts Certification #: M-FL1264 Michigan Certification #: 9911 Mississippi Certification: FL NELAC Reciprocity Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 New Hampshire Certification #: 2958 New Jersey Certification #: FL022 New York Certification #: 11608 North Carolina Environmental Certificate #: 667 North Carolina Certification #: 12710 North Dakota Certification #: R-216 Ohio DEP 87780 Oklahoma Certification #: D9947 Pennsylvania Certification #: 68-00547 Puerto Rico Certification #: FL01264 South Carolina Certification: #96042001 Tennessee Certification #: TN02974 Texas Certification: FL NELAC Reciprocity US Virgin Islands Certification: FL NELAC Reciprocity Virginia Environmental Certification #: 460165 West Virginia Certification #: 9962C Wisconsin Certification #: 399079670 Wyoming (EPA Region 8): FL NELAC Reciprocity

WorkOrder :

70242592

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747 Connecticut Certification #: PH-0435 Delaware Certification # NY 10478 Maryland Certification #: 208 Massachusetts Certification #: M-NY026 New Hampshire Certification #: 2987 New Jersey Certification #: 19478 New York Certification #: 10478 Primary Accrediting Body Pennsylvania Certification #: 68-00350 Rhode Island Certification #: LAO00340 Virginia Certification # 460302

ce

WorkOrder :

70242592

Additional Qualifiers

N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.



Client Info:
Name or Code: hiberty Mariek
Address: 60 Brooklyp Are
Murick NO 11566
Phone #: 516 632 2390
Attn: Bratasha Diola
Proj. # or (Name):
Bill To:
Copies To:

Sample Request Form PUBLIC WATER SUPPLIER

Date: 1/9/	23		FF LINE
Collected By: Accepted By:	e3	HELL R	
Cooler Temp: 14.4	°C 1.70		NO VOC'S PRESERVED WITH HCI
Sample TypesPPW - Potable WaterRdGW - GroundwaterRdSW - Surface WaterSWW - Waste WaterAQAQ - AqueousSS - Soil	urpose O - Routine E - Resample - Special	OriginD- DistributionRW- Raw WellTW- Treated WellT- TankMW- Monitoring WellI- InfluentE- Effluent	Treatment TypesAST - Air StripperGAC - Granular Activated CharcoalN - Nitrate Removal PlantFE - Iron Removal PlantO - Other

Sample Info:

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of
9

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Reading Cl ₂ pH/1	s Temp	Analysis	Lab No.
A 9:20	o GW	Jefferson 11	RW	/	Ro	1 5%	19/2.7	1,4 Dioxane DPOLL	5C
		N-07407					4	EChlorides	
								EPT-C method 533	2
1									
	-								
							1		
					-				
Remarks:									

	8		- 140	e	01	-																					\$	Sam	ple	Cont	alne	er C	oun	ł																									
1	2		Clle	nt:		<u>r</u>	<u>, 10</u>	A	2	1		T				_	_		Pr	ofile	#-		5	15	5.2	5			1					y	۲ ر	se	Poln	it Nu	amp	er Sj	prea	ıdsh	ieet			2													
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COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AGUI	100	ACan		AG4E		H20K	AGTI	AG1H	AG1A	cG10	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP35	BP3R	BP1Z	BP1N	BP1B	SP5T	œ	WG2U	NGFU	NGKU	NGDU	ZPLC	Z	AP CO	20	200							
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PM (Project Manager) review is documented electronically in LIMS.

ENV-FRM-MELV-0024 01



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-09338

Lab No. : 70244035001

Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

TEL: (516) 370-6000 FAX: (516) 886-5526

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID : 2902840 Collected : 01/23/2023 09:30 AM Point N-09338 Received : 01/23/2023 04:14 PM Location Seamanneck 4 Well Collected By CLIENT

www.pacelabs.com

Analytical Method: ASTM D7237	7-10						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Cyanide, Free	<10.0		1	ug/L	200	01/30/2023 7:52 PM	001 BP3C1/1
Analytical Method:EPA 180.1							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Turbidity	<1.0		1	NTU	5	01/24/2023 9:57 AM	001 BP1U1/1
Analytical Method:EPA 200.7							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Ca Hardness as CaCO3 (SM 2340B	10.6		1	mg/L		01/26/2023 3:33 PM	001 BP3N1/1
Calcium	4.2		1	mg/L		01/26/2023 3:33 PM	001 BP3N1/1
ron	1.8*		1	mg/L	0.3	01/26/2023 3:33 PM	001 BP3N1/1
Magnesium	1.7		1	ma/L		01/26/2023 3:33 PM	001 BP3N1/1
Vanganese	0.025		1	mg/L	0.3	01/26/2023 3:33 PM	001 BP3N1/1
Sodium	10.7		1	mg/L		01/26/2023 3:33 PM	001 BP3N1/1
Fot Hardness asCaCO3 (SM 2340B	17.5	N3	1	ma/L		01/26/2023 3:33 PM	001 BP3N1/1
Zinc	<0.020	-	1	mg/L	5	01/26/2023 3:33 PM	001 BP3N1/1
Analytical Method:EPA 200.8							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Antimony	<0.40		1	ug/L	6	01/25/2023 12:47	001 BP3N1/1
Arsenic	<1.0		1	ug/L	10	01/25/2023 12:47	001 BP3N1/1
Barium	0.0066		1	mg/L	2	01/25/2023 12:47	001 BP3N1/1
Beryllium	<0.30		1	ug/L	4	01/25/2023 12:47	001 BP3N1/1
Cadmium	<1.0		1	ug/L	5	01/25/2023 12:47	001 BP3N1/1
Chromium	<0.0070		1	mg/L	0.1	01/25/2023 12:47	001 BP3N1/1
Copper	<0.0020		1	mg/L	1.3	01/25/2023 12:47	001 BP3N1/1
_ead	<1.0		1	ug/L	15	01/25/2023 12:47	001 BP3N1/1
Mercury	<0.20		1	ug/L	2	01/25/2023 12:47	001 BP3N1/1
Nickel	0.0077		1	mg/L		01/25/2023 12:47	001 BP3N1/1
Selenium	<2.0		1	ug/L	50	01/25/2023 12:47	001 BP3N1/1
Silver	<0.0010		1	mg/L	0.1	01/25/2023 12:47	001 BP3N1/1
Thallium	0.42		1	ug/L	2	01/25/2023 12:47	001 BP3N1/1
Analytical Method:EPA 300.0							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Limit	Analyzed:	Container:
Chloride	19.3	M1	1	mg/L	250	02/03/2023 12:45	001 BP1U1/1
Fluoride	<0.10		1	mg/L	2.2	02/03/2023 12:45	001 BP1U1/1
Sulfate	23.4	M1	1	mg/L	250	02/03/2023 12:45	001 BP1U1/1
				5			

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s). Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 1 of 37

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

TEL: (516) 370-6000 FAX: (516) 886-5526

www.pacelabs.com

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID : 2902840 Collected : 01/23/2023 09:30 AM

Received : 01/23/2023 04:14 PM Collected By CLIENT

Lab No. : 70244035001 Client Sample ID.: N-09338

Point N-09338

Location Seamanneck 4 Well

Analytical Method: EPA 3	53.2						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrate as N	<0.050		1	mg/L	10	01/23/2023 9:27 PM	001 BP1U1/1
Nitrate-Nitrite (as N)	<0.050		1	mg/L		01/23/2023 9:27 PM	001 BP1U1/1
Analytical Method:EPA 3	53.2						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	01/23/2023 8:33 PM	001 BP1U1/1

mg/L

Analytical Method:EPA 533		Prep Method:	EPA 533		Prep Date	01/26/2023 10:38	
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
11CI-PF3OUdS	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
4:2 FTS	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
6:2 FTS	20.1		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
8:2 FTS	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
9CI-PF3ONS	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
ADONA	4.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
HFPO-DA	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
NFDHA	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
PFBA	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
PFEESA	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
PFHpS	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
PFMBA	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
PFMPA	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
PFPeA	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
PFPeS	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
Perfluorobutanesulfonic acid	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
Perfluorodecanoic acid	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
Perfluorododecanoic acid	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
Perfluoroheptanoic acid	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
Perfluorohexanesulfonic acid	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
Perfluorohexanoic acid	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
Perfluorononanoic acid	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
Perfluorooctanesulfonic acid	<1.8		1	ng/L	10	01/31/2023 9:50 PM	001 BP351/2
Perfluorooctanoic acid	<1.8		1	ng/L	10	01/31/2023 9:50 PM	001 BP351/2
Perfluoroundecanoic acid	<1.8		1	ng/L		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C2-PFDoA (S)	88%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C24:2FTS (S)	107%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C26:2FTS (S)	122%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C28:2FTS (S)	114%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C3-PFBS (S)	112%		1	%REC		01/31/2023 9:50 PM	001 BP351/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting

limit.Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 2 of 37

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-09338

Lab No. : 70244035001

Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566 Attn To: Natasha Niola

Federal ID : 2902840

TEL: (516) 370-6000 FAX: (516) 886-5526

Collected : 01/23/2023 09:30 AM Point N-09338 Received : 01/23/2023 04:14 PM Location Seamanneck 4 Well Collected By CLIENT

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Surr: 13C3-PFHxS (S)	113%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C3HFPO-DA(S)	86%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C4-PFBA (S)	95%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C4-PFHpA (S)	94%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C5-PFHxA (S)	93%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C5-PFPeA (S)	94%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C6-PFDA (S)	92%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C7-PFUdA (S)	93%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C8-PFOA (S)	98%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C8-PFOS (S)	107%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Surr: 13C9-PFNA (S)	95%		1	%REC		01/31/2023 9:50 PM	001 BP351/2
Analytical Method: Field N	lethod						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Field Temperature	12.9	N3	1	deg C		01/23/2023 9:30 AM	001 AG2U1/1
Field pH	5.02	N3	1	Std. Units		01/23/2023 9:30 AM	001 AG2U1/1
Analytical Method:SM22	2120B						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Apparent Color	7.0		1	units		01/24/2023 1:38 PM	001 BP1U1/1
рН	4.5		1	Std. Units		01/24/2023 1:38 PM	001 BP1U1/1
Analytical Method:SM22	2150B						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Odor @ 60 Degrees C	No odor observed		1		3	01/23/2023 9:05 PM	001 AG2U1/1
Analytical Method:SM22	2320B						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Alkalinity, Total as CaCO3	<1.0		1	mg/L		01/25/2023 10:15	001 BP1U1/1
Analytical Method:SM22	2330 LSI						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Corrosivity	-6.01		1			02/06/2023 1:25 PM	001 BP1U1/1
Analytical Method:SM22	2540C						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Total Dissolved Solids	80.0	D6	1	mg/L		01/25/2023 4:57 PM	001 BP1U1/1
Analytical Method:SM22	4500 NH3 H						
Parameter(s)	Results	Qualifier	DF	Units	Limit	Analyzed:	Container:

Qualifiers:

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ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

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Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests Type: Drinking Water Origin: Raw Well Routine

575 Broad Hollow Road, Melville, NY 11747 TEL: (516) 370-6000 FAX: (516) 886-5526 www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Lab No. : 70244035001

Client Sample ID.: N-09338

Merrick, NY 11566 Attn To: Natasha Niola

Federal ID : 2902840 Collected : 01/23/2023 09:30 AM Point N-09338 Received : 01/23/2023 04:14 PM Location Seamanneck 4 Well Collected By CLIENT

Nitrogen, Ammonia	<0.10		1	mg/L		01/26/2023 12:25	001 BP1U1/1
Analytical Method:SM22 5540C		Prep Method:	SM22 55	540C	Prep Date	01/24/2023 10:41	
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
MBAS, Calculated as LAS	<0.080		1	mg/L		01/24/2023 10:45	001 BP1U1/1

Qualifiers:

ND - Not Detected at or above adjusted reporting limit.

limit.Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s). Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.

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page 4 of 37

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Lab No. : 70244035002

Client Sample ID.: IFE-3S/4S

Type: Drinking Water Origin: Treated Well Routine

> Treatment Fe/Mn

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

TEL: (516) 370-6000 FAX: (516) 886-5526

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID :	2902840		
Collected :	01/23/2023 10:00 AM	Point	IFE-3S/4S
Received :	01/23/2023 04:14 PM	Location	Seamanneck 3 & 4
Collected By	CLIENT		

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Analytical Method: ASTM D723	7-10						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Cyanide, Free	<10.0		1	ug/L	200	01/30/2023 7:56 PM	002 BP3C1/1
Analytical Method: EPA 180.1							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Turbidity	<1.0		1	NTU	5	01/24/2023 9:58 AM	002 BP1U1/1
Analytical Method: EPA 200.7							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Ca Hardness as CaCO3 (SM 2340B	10.3		1	mg/L		01/26/2023 3:36 PM	002 BP3N1/1
Calcium	4.1		1	mg/L		01/26/2023 3:36 PM	002 BP3N1/1
Iron	<0.020		1	mg/L	0.3	01/26/2023 3:36 PM	002 BP3N1/1
Magnesium	1.6		1	ma/L		01/26/2023 3:36 PM	002 BP3N1/1
Manganese	<0.010		1	ma/L	0.3	01/26/2023 3:36 PM	002 BP3N1/1
Sodium	36.1		1	ma/L		01/26/2023 3:36 PM	002 BP3N1/1
Tot Hardness asCaCO3 (SM 2340B	17.0	N3	1	ma/l		01/26/2023 3:36 PM	002 BP3N1/1
Zinc	<0.020		1	mg/L	5	01/26/2023 3:36 PM	002 BP3N1/1
Analytical Method:EPA 200.8							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Antimony	<0.40		1	ug/L	6	01/25/2023 12:48	002 BP3N1/1
Arsenic	<1.0		1	ug/L	10	01/25/2023 12:48	002 BP3N1/1
Barium	0.0057		1	mg/L	2	01/25/2023 12:48	002 BP3N1/1
Beryllium	<0.30		1	ug/L	4	01/25/2023 12:48	002 BP3N1/1
Cadmium	<1.0		1	ug/L	5	01/25/2023 12:48	002 BP3N1/1
Chromium	<0.0070		1	mg/L	0.1	01/25/2023 12:48	002 BP3N1/1
Copper	0.0056		1	mg/L	1.3	01/25/2023 12:48	002 BP3N1/1
Lead	<1.0		1	ug/L	15	01/25/2023 12:48	002 BP3N1/1
Mercury	<0.20		1	ug/L	2	01/25/2023 12:48	002 BP3N1/1
Nickel	0.0048		1	mg/L		01/25/2023 12:48	002 BP3N1/1
Selenium	<2.0		1	ug/L	50	01/25/2023 12:48	002 BP3N1/1
Silver	< 0.0010		1	ma/L	0.1	01/25/2023 12:48	002 BP3N1/1
Thallium	<0.30		1	ug/L	2	01/25/2023 12:48	002 BP3N1/1
Analytical Method:EPA 300.0							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Chloride	22.0		1	mg/L	250	02/03/2023 1:25 AM	002 BP1U1/1
Fluoride	<0.10		1	mg/L	2.2	02/03/2023 1:25 AM	002 BP1U1/1
Sulfate	26.6		1	ma/L	250	02/03/2023 1:25 AM	002 BP1U1/1

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting

limit.Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 5 of 37

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Lab No. : 70244035002

Client Sample ID.: IFE-3S/4S

Type: Drinking Water Origin: Treated Well Routine

> Treatment Fe/Mn

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

TEL: (516) 370-6000 FAX: (516) 886-5526

Merrick, NY 11566

Attn To: Natasha Niola

 Federal ID :
 2902840

 Collected :
 01/23/2023 10:00 AM
 Point
 IFE-3S/4S

 Received :
 01/23/2023 04:14 PM
 Location
 Seamanneck 3 & 4

 Collected By
 CLIENT
 CLIENT
 Collected B
 Collected B

www.pacelabs.com

Analytical Method: EPA 353.2	2						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrate as N	0.053		1	mg/L	10	01/23/2023 9:31 PM	002 BP1U1/1
Nitrate-Nitrite (as N)	0.067		1	mg/L		01/23/2023 9:31 PM	002 BP1U1/1
Analytical Method: EPA 353.2	2						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	01/23/2023 8:37 PM	002 BP1U1/1
Analytical Method: Field Meth	nod						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Field Temperature	13.3	N3	1	deg C		01/23/2023 10:00	002 AG2U1/1
Field pH	7.35	N3	1	Std. Units		01/23/2023 10:00	002 AG2U1/1
Analytical Method:SM22 212	0B						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Apparent Color	<5.0		1	units		01/24/2023 1:39 PM	002 BP1U1/1
pH	7.2		1	Std. Units		01/24/2023 1:39 PM	002 BP1U1/1
Analytical Method:SM22 215	0B						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Odor @ 60 Degrees C	1		1		3	01/23/2023 9:05 PM	002 AG2U1/1
Analytical Method:SM22 232	0B						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Alkalinity, Total as CaCO3	60.7		1	mg/L		01/25/2023 10:22	002 BP1U1/1
Analytical Method:SM22 233	0 LSI						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Corrosivity	-1.91		1			02/06/2023 1:25 PM	002 BP1U1/1
Analytical Method:SM22 254	0C						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Total Dissolved Solids	125		1	mg/L		01/25/2023 4:58 PM	002 BP1U1/1
Analytical Method:SM22 450	0 NH3 H						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrogen, Ammonia	<0.10		1	mg/L		01/26/2023 12:27	002 BP1U1/1

Qualifiers:

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ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s). Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

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Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.

Pace	ç °
/Pace	,

60 Brooklyn Avenue

Laboratory Results

Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests Type: Drinking Water Origin: Treated Well Routine

> Treatment Fe/Mn

Container: 002 BP1U1/1

575 Broad Hollow Road, Melville, NY 11747 TEL: (516) 370-6000 FAX: (516) 886-5526 www.pacelabs.com Liberty-NY - Merrick OPS

Client Sample ID.: IFE-3S/4S

Merrick, NY 11566 Attn To: Natasha Niola Federal ID : 2902840 IFE-3S/4S Collected : 01/23/2023 10:00 AM Point Received : 01/23/2023 04:14 PM Location Seamanneck 3 & 4 Collected By CLIENT

Lab No. : 70244035002

Analytical Method:SM22 5540C		Prep Method:	SM22 55	540C	Prep Date: 01/24/2023 10:41		
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	
MBAS, Calculated as LAS	<0.080		1	mg/L	0	1/24/2023 10:45	

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting

limit.Estimated value - below calibration range U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s). Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

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Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Lab No. : 70244035003

Client Sample ID.: GAC-3S/4S

Type: Drinking Water Origin: Treated Well Routine

> Treatment GAC

www.pacelabs.com Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To : Natasha Niola

 Federal ID :
 2902840

 Collected :
 01/23/2023 11:00 AM

 Received :
 01/23/2023 04:14 PM

 Collected By
 CLIENT

TEL: (516) 370-6000 FAX: (516) 886-5526

GAC-3S/4S

Location Seamanneck Wells 3/4

Point

Analytical Method: ASTM D7237	7-10						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Cyanide, Free	<10.0		1	ug/L	200	01/30/2023 8:00 PM	003 BP3C1/1
Analytical Method:EPA 180.1							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Turbidity	<1.0		1	NTU	5	01/24/2023 9:59 AM	003 BP1U1/1
Analytical Method:EPA 200.7							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Ca Hardness as CaCO3 (SM 2340B	10.4		1	mg/L		01/26/2023 3:39 PM	003 BP3N1/1
Calcium	4.2		1	mg/L		01/26/2023 3:39 PM	003 BP3N1/1
Iron	<0.020		1	mg/L	0.3	01/26/2023 3:39 PM	003 BP3N1/1
Magnesium	1.6		1	mg/L		01/26/2023 3:39 PM	003 BP3N1/1
Manganese	<0.010		1	mg/L	0.3	01/26/2023 3:39 PM	003 BP3N1/1
Sodium	35.8		1	mg/L		01/26/2023 3:39 PM	003 BP3N1/1
Tot Hardness asCaCO3 (SM 2340B	17.2	N3	1	ma/L		01/26/2023 3:39 PM	003 BP3N1/1
Zinc	<0.020		1	mg/L	5	01/26/2023 3:39 PM	003 BP3N1/1
Analytical Method:EPA 200.8							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Antimony	<0.40		1	ug/L	6	01/25/2023 12:50	003 BP3N1/1
Arsenic	<1.0		1	ug/L	10	01/25/2023 12:50	003 BP3N1/1
Barium	0.0059		1	mg/L	2	01/25/2023 12:50	003 BP3N1/1
Beryllium	<0.30		1	ug/L	4	01/25/2023 12:50	003 BP3N1/1
Cadmium	<1.0		1	ug/L	5	01/25/2023 12:50	003 BP3N1/1
Chromium	<0.0070		1	mg/L	0.1	01/25/2023 12:50	003 BP3N1/1
Copper	<0.0020		1	mg/L	1.3	01/25/2023 12:50	003 BP3N1/1
Lead	<1.0		1	ug/L	15	01/25/2023 12:50	003 BP3N1/1
Mercurv	<0.20		1	ua/L	2	01/25/2023 12:50	003 BP3N1/1
Nickel	0.0046		1	ma/L		01/25/2023 12:50	003 BP3N1/1
Selenium	<2.0		1	ua/L	50	01/25/2023 12:50	003 BP3N1/1
Silver	< 0.0010		1	ma/l	0.1	01/25/2023 12:50	003 BP3N1/1
Thallium	<0.30		1	ug/L	2	01/25/2023 12:50	003 BP3N1/1
Analytical Method:EPA 300.0							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Chloride	22.2		1	mg/L	250	02/03/2023 1:39 AM	003 BP4U2/2
Fluoride	<0.10		1	mg/L	2.2	02/03/2023 1:39 AM	003 BP4U2/2
Sulfate	26.5		1	mg/L	250	02/03/2023 1:39 AM	003 BP4U2/2

Qualifiers:

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J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting

limit.Estimated value - below calibration range

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See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 8 of 37

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests Type: Drinking Water Origin: Treated Well Routine

> Treatment GAC

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID : 2902840 Collected : 01/23/2023 11:00 AM Received : 01/23/2023 04:14 PM Collected By CLIENT

TEL: (516) 370-6000 FAX: (516) 886-5526

www.pacelabs.com

Point

Client Sample ID.: GAC-3S/4S

GAC-3S/4S Location Seamanneck Wells 3/4

Analytical Method:EPA 353.2							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrate as N	<0.050		1	mg/L	10	01/23/2023 9:34 PM	003 BP1U1/1
Nitrate-Nitrite (as N)	0.066	M1	1	mg/L		01/23/2023 9:34 PM	003 BP1U1/1
Analytical Method:EPA 353.2							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	01/23/2023 8:39 PM	003 BP1U1/1
Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Date	e: 01/25/2023 9:01 AM	
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	1.5*		1	ug/L	1	01/25/2023 6:59 PM	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	81%		1	%REC		01/25/2023 6:59 PM	003 AG2R1/2
Analytical Method:EPA 533		Prep Method:	EPA 533		Prep Date	e: 01/26/2023 10:38	
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
11CI-PF3OUdS	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
4:2 FTS	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
6:2 FTS	<3.6		1	ng/L		01/31/2023 10:06	003 BP351/2
8:2 FTS	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
9CI-PF3ONS	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
ADONA	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
HFPO-DA	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
NFDHA	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
PFBA	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
PFEESA	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
PFHpS	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
PFMBA	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
PFMPA	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
PFPeA	2.1		1	ng/L		01/31/2023 10:06	003 BP351/2
PFPeS	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
Perfluorobutanesulfonic acid	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
Perfluorodecanoic acid	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
Perfluorododecanoic acid	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
Perfluoroheptanoic acid	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
Perfluorohexanesulfonic acid	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
Perfluorohexanoic acid	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
Perfluorononanoic acid	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
Perfluorooctanesulfonic acid	<1.8		1	ng/L	10	01/31/2023 10:06	003 BP351/2
Perfluorooctanoic acid	<1.8		1	ng/L	10	01/31/2023 10:06	003 BP351/2

Qualifiers:

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See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 9 of 37

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Lab No. : 70244035003



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:

Type: Drinking Water Origin: Treated Well Routine

> Treatment GAC

TEL: (516) 370-6000 FAX: (516) 886-5526 www.pacelabs.com Liberty-NY - Merrick OPS

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To : Natasha Niola

Federal ID : 2902840 Collected : 01/23/202

Collected : 01/23/2023 11:00 AM Received : 01/23/2023 04:14 PM

Collected By CLIENT

Lab No. : 70244035003 Client Sample ID.: GAC-3S/4S

GAC-3S/4S

Location Seamanneck Wells 3/4

Point

Perfluoroundecanoic acid	<1.8		1	ng/L		01/31/2023 10:06	003 BP351/2
Surr: 13C2-PFDoA (S)	82%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C24:2FTS (S)	110%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C26:2FTS (S)	121%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C28:2FTS (S)	103%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C3-PFBS (S)	113%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C3-PFHxS (S)	110%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C3HFPO-DA(S)	76%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C4-PFBA (S)	83%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C4-PFHpA (S)	87%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C5-PFHxA (S)	86%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C5-PFPeA (S)	85%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C6-PFDA (S)	82%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C7-PFUdA (S)	83%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C8-PFOA (S)	90%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C8-PFOS (S)	102%		1	%REC		01/31/2023 10:06	003 BP351/2
Surr: 13C9-PFNA (S)	90%		1	%REC		01/31/2023 10:06	003 BP351/2
Analytical Method: Field Method	1						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Field Temperature	12.7	N3	1	deg C		01/23/2023 11:00	003 AG2U1/1
Field pH	7.41	N3	1	Std. Units		01/23/2023 11:00	003 AG2U1/1
Analytical Method:SM22 2120E	3						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Apparent Color	<5.0		1	units		01/24/2023 1:41 PM	003 BP1U1/1
рН	7.1		1	Std. Units		01/24/2023 1:41 PM	003 BP1U1/1
Analytical Method:SM22 2150E	3						
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Limit	Analyzed:	Container:
Odor @ 60 Degrees C	No odor observed		1		3	01/23/2023 9:05 PM	003 AG2U1/1
Analytical Method:SM22 2320E	}						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Alkalinity, Total as CaCO3	58.6		1	mg/L		01/25/2023 10:30	003 BP1U1/1
Analytical Method:SM22 2330 I	_SI						
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Corrosivity	-1.86		1			02/06/2023 1:25 PM	003 BP1U1/1

Qualifiers:

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See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s). Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 10 of 37

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.

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Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Lab No. : 70244035003

Client Sample ID.: GAC-3S/4S

Type: Drinking Water Origin: Treated Well Routine

> Treatment GAC

575 Broad Hollow Road, Melville, NY 11747 TEL: (516) 370-6000 FAX: (516) 886-5526 www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID : 2902840

Collected : 01/23/2023 11:00 AM

01/23/2023 04:14 PM Received : Collected By CLIENT

Point

GAC-3S/4S Location Seamanneck Wells 3/4

Analytical Method:SM22 2540C										
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:			
Total Dissolved Solids	158		1	mg/L		01/25/2023 5:08 PM	003 BP1U1/1			
Analytical Method:SM22 4500 NH3 H										
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:			
Nitrogen, Ammonia	<0.10		1	mg/L		01/26/2023 12:28	003 BP1U1/1			
Analytical Method:SM22 5540C		Prep Method:	SM22 55	40C	Prep Date	<u>e:</u> 01/24/2023 10:41				
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:			
MBAS, Calculated as LAS	<0.080		1	mg/L		01/24/2023 10:45	003 BP1U1/1			

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See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s). Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 11 of 37

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-14347

Lab No.: 70244035004

Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

TEL: (516) 370-6000 FAX: (516) 886-5526

www.pacelabs.com

Point

Merrick, NY 11566

Attn To : Natasha Niola

Federal ID: 2902840

Sample Comments: RUN TO WASTE

Collected : 01/23/2023 12:00 PM Received : 01/23/2023 04:14 PM Collected By CLIENT

Location Seaman Neck #3A

N-14347

Analytical Method: ASTM D7237-10 Parameter(s) Results Qualifier D.F. <u>Units</u> <u>Limit</u> Analyzed: Container: Cyanide, Free 200 01/30/2023 8:13 PM 004 BP3C1/1 <10.0 1 ug/L Analytical Method: EPA 180.1 Parameter(s) <u>Qualifier</u> <u>D.F.</u> <u>Limit</u> Results <u>Units</u> Analyzed: Container: NTU 5 Turbidity <1.0 1 01/24/2023 10:00 004 BP1U1/1 Analytical Method: EPA 200.7 Parameter(s) **Results Qualifier** <u>D.F.</u> <u>Units</u> <u>Limit</u> Analyzed: Container: Ca Hardness as CaCO3 (SM 2340B 8.4 01/26/2023 3:41 PM 004 BP3N1/1 1 mg/L Calcium 3.4 mg/L 01/26/2023 3:41 PM 004 BP3N1/1 1 Iron 1.3* 1 mg/L 0.3 01/26/2023 3:41 PM 004 BP3N1/1 Magnesium 1.4 1 mg/L 01/26/2023 3:41 PM 004 BP3N1/1 0.032 0.3 Manganese 1 mg/L 01/26/2023 3:41 PM 004 BP3N1/1 Sodium 9.4 1 mg/L 01/26/2023 3:41 PM 004 BP3N1/1 Tot Hardness asCaCO3 (SM 2340B 14.0 N3 1 mg/L 01/26/2023 3:41 PM 004 BP3N1/1 Zinc 0.094 mg/L 5 01/26/2023 3:41 PM 004 BP3N1/1 1 Analytical Method: EPA 200.8 Parameter(s) **Results** Qualifier D.F. Units Limit Analyzed: Container: Antimony < 0.40 6 01/25/2023 12:51 004 BP3N1/1 1 ug/L Arsenic <1.0 1 ug/L 10 01/25/2023 12:51 004 BP3N1/1 2 004 BP3N1/1 0.0066 01/25/2023 12:51 Barium 1 mg/L Beryllium < 0.30 ug/L 4 01/25/2023 12:51 004 BP3N1/1 1 5 Cadmium <1.0 ug/L 01/25/2023 12:51 004 BP3N1/1 1 < 0.0070 0.1 004 BP3N1/1 Chromium 1 mg/L 01/25/2023 12:51 Copper 0.040 1 mg/L 1.3 01/25/2023 12:51 004 BP3N1/1 Lead 1.2 ug/L 15 01/25/2023 12:51 004 BP3N1/1 1 Mercury <0.20 ug/L 2 01/25/2023 12:51 004 BP3N1/1 1 0.0076 Nickel 1 mg/L 01/25/2023 12:51 004 BP3N1/1 Selenium <2.0 1 ug/L 50 01/25/2023 12:51 004 BP3N1/1 Silver <0.0010 0.1 01/25/2023 12:51 004 BP3N1/1 1 mg/L 0.34 2 01/25/2023 12:51 004 BP3N1/1 Thallium 1 ug/L Analytical Method: EPA 300.0 Parameter(s) **Results** Qualifier D.F. Units Limit Analyzed: Container: Chloride 250 02/03/2023 1:53 AM 004 BP4U2/2 19.3 1 mg/L Qualifiers: DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 12 of 37

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.

575 Broad Hollow Road, Melville, NY 11747

Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-14347

Lab No.: 70244035004

Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS

TEL: (516) 370-6000 FAX: (516) 886-5526

www.pacelabs.com

Point

N-14347

Location Seaman Neck #3A

60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID : 2902840

Collected : 01/23/2023 12:00 PM

01/23/2023 04:14 PM Received :

Collected By CLIENT

Sample Comments:

RUN TO WASTE

Fluoride <0.10 2.2 02/03/2023 1:53 AM 004 BP4U2/2 1 mg/L Sulfate 16.5 250 004 BP4U2/2 1 mg/L 02/03/2023 1:53 AM Analytical Method: EPA 353.2 Parameter(s) **Results** Qualifier <u>D.F.</u> <u>Units</u> Limit Analyzed: Container: Nitrate as N 10 0.19 1 mg/L 01/23/2023 9:37 PM 004 BP1U1/1 Nitrate-Nitrite (as N) 0.20 1 mg/L 01/23/2023 9:37 PM 004 BP1U1/1 Analytical Method: EPA 353.2 Parameter(s) Results Qualifier D.F. Units Limit Analyzed: Container: Nitrite as N < 0.050 01/23/2023 8:43 PM 004 BP1U1/1 1 mg/L 1 Analytical Method EDA 522 Prep Method: EPA 522 Pren Date: 01/25/2022 0:01 AM

May tour moundar ET A 522	riop mounou.			<u>1100 Date</u>	<u>- 10p Batel</u> 01/20/2020 3:01 AM			
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
1,4-Dioxane (p-Dioxane)	2.2*		1	ug/L	1	01/25/2023 7:15 PM	004 AG2R1/2	
Surr: 1,4-Dioxane-d8 (S)	84%		1	%REC		01/25/2023 7:15 PM	004 AG2R1/2	

Analytical Method: EPA 524.2							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,1,2-Trichlorotrifluoroethane	1.1	N3,L1	1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,1-Dichloroethene	0.73		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	01/26/2023 5:55 PM	004 VG9C1/2

Qualifiers:

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Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 13 of 37

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



Point

N-14347

Location Seaman Neck #3A

Liberty-NY - Merrick OPS **60 Brooklyn Avenue**

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID : 2902840

Collected : 01/23/2023 12:00 PM

01/23/2023 04:14 PM Received :

Collected By CLIENT

Sample Comments: RUN TO WASTE

2-Chlorotoluene <0.50 ug/L 5 01/26/2023 5:55 PM 004 VG9C1/2 1 5 4-Chlorotoluene <0.50 004 VG9C1/2 1 ug/L 01/26/2023 5:55 PM 5 Benzene < 0.50 1 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 5 Bromobenzene <0.50 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 1 01/26/2023 5:55 PM 5 Bromochloromethane < 0.50 1 ug/L 004 VG9C1/2 ug/L Bromodichloromethane < 0.50 01/26/2023 5:55 PM 004 VG9C1/2 1 ug/L 004 VG9C1/2 Bromoform < 0.50 1 01/26/2023 5:55 PM 5 Bromomethane < 0.50 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 1 5 Carbon tetrachloride < 0.50 1 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 Chlorobenzene <0.50 ug/L 5 01/26/2023 5:55 PM 004 VG9C1/2 1 Chlorodifluoromethane < 0.50 N3,L1 1 ug/L 5 01/26/2023 5:55 PM 004 VG9C1/2 Chloroethane < 0.50 1 ug/L 5 01/26/2023 5:55 PM 004 VG9C1/2 Chloroform 01/26/2023 5:55 PM 004 VG9C1/2 < 0.50 1 ug/L 5 Chloromethane 004 VG9C1/2 < 0.50 11 1 ug/L 01/26/2023 5:55 PM Dibromochloromethane < 0.50 1 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 5 Dibromomethane <0.50 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 1 Dichlorodifluoromethane 5 < 0.50 v3 1 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 ug/L 5 Ethylbenzene < 0.50 01/26/2023 5:55 PM 004 VG9C1/2 1 5 Hexachloro-1,3-butadiene < 0.50 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 1 5 Isopropylbenzene (Cumene) < 0.50 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 1 10 Methyl-tert-butyl ether < 0.50 1 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 Methylene Chloride <0.50 ug/L 5 01/26/2023 5:55 PM 004 VG9C1/2 1 5 Styrene < 0.50 1 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 Tetrachloroethene < 0.50 1 ug/L 5 01/26/2023 5:55 PM 004 VG9C1/2 Toluene < 0.50 1 ug/L 5 01/26/2023 5:55 PM 004 VG9C1/2 Total Trihalomethanes (Calc.) < 0.50 1 ug/L 80 01/26/2023 5:55 PM 004 VG9C1/2 5 Trichloroethene 23.0* 1 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 5 Trichlorofluoromethane <0.50 1 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 Vinyl chloride 2 < 0.50 1 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 ug/L 5 cis-1,2-Dichloroethene < 0.50 01/26/2023 5:55 PM 004 VG9C1/2 1 ug/L cis-1,3-Dichloropropene 5 004 VG9C1/2 < 0.50 1 01/26/2023 5:55 PM 5 m&p-Xylene < 0.50 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 1 5 n-Butylbenzene < 0.50 1 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 5 n-Propylbenzene <0.50 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 1 5 004 VG9C1/2 o-Xylene < 0.50 1 ug/L 01/26/2023 5:55 PM 5 p-Isopropyltoluene < 0.50 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 1 sec-Butylbenzene 5 004 VG9C1/2 < 0.50 1 ug/L 01/26/2023 5:55 PM 5 tert-Butylbenzene < 0.50 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 1 5 trans-1,2-Dichloroethene < 0.50 1 ug/L 01/26/2023 5:55 PM 004 VG9C1/2 trans-1,3-Dichloropropene <0.50 ug/L 5 01/26/2023 5:55 PM 004 VG9C1/2 1 01/26/2023 5:55 PM 004 VG9C1/2

Type: Drinking Water Origin: Raw Well Routine

Lab No.: 70244035004 Client Sample ID.: N-14347

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Surr: 1,2-Dichlorobenzene-d4 (S) 97% 1 %REC

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting

limit.Estimated value - below calibration range

Qualifiers:

U - Indicates the compound was analyzed for, but not detected

See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Client Sample ID.: N-14347

Lab No. : 70244035004

Type: Drinking Water Origin: Raw Well Routine

www.pacelabs.com

Point

Liberty-NY - Merrick OPS **60 Brooklyn Avenue**

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID : 2902840

Collected : 01/23/2023 12:00 PM

01/23/2023 04:14 PM Received :

Collected By CLIENT

TEL: (516) 370-6000 FAX: (516) 886-5526

N-14347 Location Seaman Neck #3A

Sample Comments:

RUN TO WASTE

Surr: 4-Bromofluorobenzene (S)	91%		1	%REC		01/26/2023 5:55 PM	004 VG9C1/2
Analytical Method:EPA 533		Prep Method:	EPA 533		Prep Date	e: 01/26/2023 10:38	
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
11CI-PF3OUdS	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
4:2 FTS	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
6:2 FTS	10.5	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
8:2 FTS	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
9CI-PF3ONS	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
ADONA	2.2	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
HFPO-DA	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
NFDHA	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
PFBA	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
PFEESA	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
PFHpS	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
PFMBA	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
PFMPA	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
PFPeA	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
PFPeS	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
Perfluorobutanesulfonic acid	2.0	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
Perfluorodecanoic acid	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
Perfluorododecanoic acid	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
Perfluoroheptanoic acid	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
Perfluorohexanesulfonic acid	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
Perfluorohexanoic acid	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
Perfluorononanoic acid	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
Perfluorooctanesulfonic acid	2.6	P4	1	ng/L	10	01/31/2023 10:41	004 BP351/2
Perfluorooctanoic acid	2.4	P4	1	ng/L	10	01/31/2023 10:41	004 BP351/2
Perfluoroundecanoic acid	<1.7	P4	1	ng/L		01/31/2023 10:41	004 BP351/2
Surr: 13C2-PFDoA (S)	83%		1	%REC		01/31/2023 10:41	004 BP351/2
Surr: 13C24:2FTS (S)	144%		1	%REC		01/31/2023 10:41	004 BP351/2
Surr: 13C26:2FTS (S)	127%		1	%REC		01/31/2023 10:41	004 BP351/2
Surr: 13C28:2FTS (S)	118%		1	%REC		01/31/2023 10:41	004 BP351/2
Surr: 13C3-PFBS (S)	106%		1	%REC		01/31/2023 10:41	004 BP351/2
Surr: 13C3-PFHxS (S)	107%		1	%REC		01/31/2023 10:41	004 BP351/2
Surr: 13C3HFPO-DA(S)	91%		1	%REC		01/31/2023 10:41	004 BP351/2
Surr: 13C4-PFBA (S)	102%		1	%REC		01/31/2023 10:41	004 BP351/2
Surr: 13C4-PFHpA (S)	97%		1	%REC		01/31/2023 10:41	004 BP351/2
Surr: 13C5-PFHxA (S)	96%		1	%REC		01/31/2023 10:41	004 BP351/2
Surr: 13C5-PFPeA (S)	93%		1	%REC		01/31/2023 10:41	004 BP351/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting

limit.Estimated value - below calibration range

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See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.

575 Broad Hollow Road, Melville, NY 11747

Liberty-NY - Merrick OPS

Laboratory Results

Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Type: Drinking Water Origin: Raw Well Routine

60 Brooklyn Avenue							
Merrick, NY 11566							
Attn To : Nata	asha Niola						
Federal ID :	2902840						
Collected :	01/23/2023 12:00 P	M Point					
Received :	01/23/2023 04:14 P	M Location					
Collected By	CLIENT						
Sample Com	ments:						
RUN TO WA	STE						
Surr: 13C6-PFD	DA (S)	90%					
Surr: 13C7-PFL	JdA (S)	88%					
Surr: 13C8-PFC	DA (S)	95%					
Surr: 13C8-PFC	DS (S)	107%					
Surr: 13C9-PFN	IA (S)	92%					
Analvtica	al Method:Field Method						
Paramotor(c)		Poculto					
<u>r arameter(s)</u>		Results					
Field Temperatu	ure	12.2					
Field pH		5.10					
Analytica	al Method:SM22 2120B						
Parameter(s)	1	<u>Results</u>					
Apparent Color		7.0					

TEL: (516) 370-6000 FAX: (516) 886-5526

www.pacelabs.com

Lab No. : 70244035004 Client Sample ID.: N-14347

N-14347

Seaman Neck #3A

Surr: 13C6-PFDA (S)	90%		1	%REC		01/31/2023 10:41	004 BP351/2	
Surr: 13C7-PFUdA (S)	88%		1	%REC		01/31/2023 10:41	004 BP351/2	
Surr: 13C8-PFOA (S)	95%		1	%REC		01/31/2023 10:41	004 BP351/2	
Surr: 13C8-PFOS (S)	107%		1	%REC		01/31/2023 10:41	004 BP351/2	
Surr: 13C9-PFNA (S)	92%		1	%REC		01/31/2023 10:41	004 BP351/2	
Analytical Method: Field Method								
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
Field Temperature	12.2	N3	1	deg C		01/23/2023 12:00	004 AG2U1/1	
Field pH	5.10	N3	1	Std. Units		01/23/2023 12:00	004 AG2U1/1	
Analytical Method:SM22 2120B								
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
Apparent Color	7.0		1	units		01/24/2023 1:42 PM	004 BP1U1/1	
рН	4.3		1	Std. Units		01/24/2023 1:42 PM	004 BP1U1/1	
Analytical Method:SM22 2150B								
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
Odor @ 60 Degrees C	1		1		3	01/23/2023 9:05 PM	004 AG2U1/1	
Analytical Method:SM22 2320B								
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
Alkalinity, Total as CaCO3	<1.0		1	mg/L		01/25/2023 10:33	004 BP1U1/1	
Analytical Method:SM22 2330 LS	SI							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
Corrosivity	-6.03		1			02/06/2023 1:25 PM	004 BP1U1/1	
Analytical Method:SM22 2540C								
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
Total Dissolved Solids	61.0		1	mg/L		01/25/2023 5:09 PM	004 BP1U1/1	
Analytical Method:SM22 4500 N	H3 H							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
Nitrogen, Ammonia	<0.10		1	mg/L		01/26/2023 12:29	004 BP1U1/1	
Analytical Method:SM22 5540C		Prep Method:	SM22 55	40C	Prep Date	01/24/2023 10:41		
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
Qualifiers:								-

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See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 16 of 37

n lu

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.

			Laborato	<u>S</u> Type:	Sample Information:		
			Results for the sample	s and analytes requested	Origin:		
/Pace	8	Th	e lab is not directly responsible receipt at the lab and is respo	for the integrity of the sample before onsible only for the certified tests	Origin.	Routine	
575 Broad	d Hollow Road, Melville, NY 1174	7					
TEL: (516) 370-6000 FAX: (516) 886-552	26					
	www.pacelabs	s.com					
Liberty-NY - I	Merrick OPS			Lab No. : 70244035004			
60 Brooklyn /	Avenue		Client Sa	ample ID.: N-14347			
Merrick, NY 1	1566						
Attn To : Nata	asha Niola						
Federal ID :	2902840						
Collected :	01/23/2023 12:00 PM	Point	N-14347				
Received :	01/23/2023 04:14 PM	Location	Seaman Neck #3A				
Collected By	CLIENT						
Sample Com	ments:						
RUN TO WA	STE						
MBAS, Calculat	ted as LAS <0.	080	1	mg/L	01/24/2023 10:45	004 BP1U1/1	

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting

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See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s). Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

page 17 of 37

Jennifer Aracri

Test results meet the requirements of NELAC

without the written approval of the laboratory.

This report shall not be reproduced except in full,

unless otherwise noted.

Sample Information:

WorkOrder :

70244035

Laboratory Certifications

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174 Alaska DEC- CS/UST/LUST Alabama Certification #: 41320 Colorado Certification: FL NELAC Reciprocity Connecticut Certification #: PH-0216 Delaware Certification: FL NELAC Reciprocity Florida Certification #: E83079 Georgia Certification #: 955 Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity Illinois Certification #: 200068 Indiana Certification: FL NELAC Reciprocity Kansas Certification #: E-10383 Kentucky Certification #: 90050 Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007 Maine Certification #: FL01264 Maryland Certification: #346 Massachusetts Certification #: M-FL1264 Michigan Certification #: 9911 Mississippi Certification: FL NELAC Reciprocity Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 New Hampshire Certification #: 2958 New Jersey Certification #: FL022 New York Certification #: 11608 North Carolina Environmental Certificate #: 667 North Carolina Certification #: 12710 North Dakota Certification #: R-216 Ohio DEP 87780 Oklahoma Certification #: D9947 Pennsylvania Certification #: 68-00547 Puerto Rico Certification #: FL01264 South Carolina Certification: #96042001 Tennessee Certification #: TN02974 Texas Certification: FL NELAC Reciprocity US Virgin Islands Certification: FL NELAC Reciprocity Virginia Environmental Certification #: 460165 West Virginia Certification #: 9962C Wisconsin Certification #: 399079670 Wyoming (EPA Region 8): FL NELAC Reciprocity

WorkOrder :

70244035

Laboratory Certifications

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747 Connecticut Certification #: PH-0435 Delaware Certification # NY 10478 Maryland Certification #: 208 Massachusetts Certification #: M-NY026 New Hampshire Certification #: 2987 New Jersey Certification #: 10478 Primary Accrediting Body Pennsylvania Certification #: 10478 Primary Accrediting Body Pennsylvania Certification #: 68-00350 Rhode Island Certification #: LAO00340 Virginia Certification # 460302
575 Broad Hollow Road, Melville, NY 11747 TEL: (516) 370-6000 FAX: (516) 886-5526 www.pacelabs.com

WorkOrder :

70244035

Additional Qualifiers

D6 - The precision between the sample and sample duplicate exceeded laboratory control limits.

L1 - Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

M1 - Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v3 - The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.





301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For	Pace Analy	tical Services, IncNY
	Project	70244035
	Workorder	<u>3284651</u>
	Report ID	222633 on 2/3/2023

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jan 25, 2023.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at

www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global. ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Tara Bernier - Pace Analytical Services, Inc.-NY Reporting - Pace Analytical Services, Inc.-NY

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung Project Coordinator (ALS Digital Signature)

Project	70244035
Workorder	3284651



Sample Summary

 Lab ID
 Sample ID

 3284651001
 N-09338

 3284651002
 IFE-3S/4S

 3284651003
 GAC-3S/4S

 3284651004
 N-14347

<u>Matrix</u> NY Potable Water NY Potable Water NY Potable Water NY Potable Water

Date Collected 01/23/2023 09:30 01/23/2023 10:00 01/23/2023 11:00 01/23/2023 12:00 Date Received 01/25/2023 09:08 01/25/2023 09:08 01/25/2023 09:08 01/25/2023 09:08 Collector CBC CBC CBC CBC CBC

Collected By Client Collected By Client Collected By Client Collected By Client Collected By Client



Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
Ν	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

<u>Project</u> <u>Workorder</u>	70244035 3284651			ALS
			Project Notations	
			Sample Notations	
Lab ID	Sample ID			
			Result Notations	
Notation R	ef.			

 Project
 70244035

 Workorder
 3284651



Detected Results Summary

Not applicable for this WO.

<u>Project</u> 7024403 <u>Workorder</u> 3284651	35 1								AL	5
				R	Results					\supset
Client Sample ID Lab Sample ID	N-09338 3284651001						Collected Lab Recei	01/23/ pt 01/25/	2023 0 2023 0	9:30 9:08
WET CHEMIST	RY									
Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	MDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Perchlorate	ND	ND	ug/L	4.0	1.4	EPA 314.0	1	01/31/2023 20:46	DMG	А

Project 702440 Workorder 328465	35 1								ALS	
				F	Results					
Client Sample IE Lab Sample ID	D IFE-3S/4S 3284651002						Collected Lab Recei	01/23/ pt 01/25/	2023 1 2023 0	0:00 9:08
WET CHEMIST	ſRY									
Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	MDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Perchlorate	ND	ND	ug/L	4.0	1.4	EPA 314.0	1	01/31/2023 21:13	DMG	А

Project 7024403 Workorder 3284651	35 1							AL	
				Results					
Client Sample ID Lab Sample ID	GAC-3S/4S 3284651003					Collected Lab Recei	01/23/ ot 01/25/	2023 1 2023 0	1:00 9:08
WET CHEMIST	RY								
Compound	<u>Result</u>	<u>Flag</u> Ur	its RDL	MDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Perchlorate	ND	ND ug	/L 4.0	1.4	EPA 314.0	1	01/31/2023 21:40	DMG	А

Project 70244 Workorder 32846	4035 651										3)
					F	Results					
Client Sample I Lab Sample ID	ID N-1 32	4347 84651004						Collected Lab Recei	01/23/ pt 01/25/	2023 1 2023 0	2:00 9:08
WET CHEMIS	STRY										
Compound		<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	MDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Perchlorate		ND	ND	ug/L	4.0	1.4	EPA 314.0	1	02/01/2023 00:25	DMG	А

 Project
 70244035

 Workorder
 3284651



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3284651001	N-09338	EPA 314.0	N/A	
3284651002	IFE-3S/4S	EPA 314.0	N/A	
3284651003	GAC-3S/4S	EPA 314.0	N/A	
3284651004	N-14347	EPA 314.0	N/A	



QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch					А	ssociated Sam	ples		
<u>QC Batch</u> 939883 <u>Date</u> N/A <u>Tech.</u>	Prep Method Analysis Metho	N/A <u>d</u> EPA 314.0			32846	51001 3284	651002	3284651003 328	4651004
Matrix Spike	3618221	(MS)	abown ba	328464900	1 (non-P	roject Sample)	for the pure	For QC Batch	939883
Matrix Spike Duplicate	Matrix Spike perce 3618222	(MSD)	. This res	ult is not a fi 328464900	nal value 1 (non-P	and cannot be roject Sample)	used as si	For QC Batch	<u>939883</u>
RESULTSCompoundCAS NoPerchlorate14797-73-Perchlorate14797-73-	0 MS 0 MSD	<u>Result</u> (ug/L) 23.30 23.20	Orig. Result (ug/L) 0	<u>Spk</u> <u>Added</u> (ug/L) 25 25	<u>Rec.</u> (%) 93.1 93	<u>Limits (%)</u> 80 - 120 80 - 120	<u>RPD L</u> RPD <u>(</u>	<u>-imit (%)</u> 0.15 (Max-15)	Qualifiers
Method Blank	3618219	(MB)		Create	ed on <u>01/</u>	31/2023 13:26		For QC Batch	939883
RESULTS Compound Perchlorate	<u>CAS No</u> 14797-73-0	BLK	<u> </u>	Result <u>Unit</u> s	<u>8</u>	<u>RDL</u> 4.0			Qualifiers ND
Lab Control Standard	3618220	(LCS)		Create	d on <u>01/</u>	31/2023 13:26		For QC Batch	939883
RESULTS Compound CAS No Perchlorate 14797-73-	0 LCS	<u>Result</u> (ug/L) 23.80	<u>Orig.</u> <u>Result</u> (ug/L)	<u>Spk</u> <u>Added</u> (ug/L) 25	<u>Rec.</u> (<u>%)</u> 95.2	<u>Limits (%)</u> 85 - 115	<u>RPD L</u>	<u>.imit (%)</u>	Qualifiers
Method Blank	3618223	(MB)		Create	d on <u>01/</u>	31/2023 13:26		For QC Batch	939883
RESULTS									
<u>Compound</u> Perchlorate	<u>CAS No</u> 14797-73-0	BLK	F	<u>Result</u> <u>Units</u> ND ug/L	<u>5</u>	<u>RDL</u> 4.0			Qualifiers ND
Matrix Spike Matrix Spike Duplicate	3618224 ****NOTE - The O Matrix Spike perce 3618225	(MS) iginal Result nt recoveries (MSD)	shown be . This res	328465100 How is a raw ult is not a fi 328465100	4 v result ar nal value 4	nd is only used and cannot be	for the purp used as si	For QC Batch pose of calculating uch. For QC Batch	<u>939883</u> <u>939883</u>

Project	70244035
Workorder	3284651



QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Compound	CAS No		<u>Result</u> (ug/L)	<u>Orig.</u> <u>Result</u> (ug/L)	<u>Spk</u> <u>Added</u> (ug/L)	<u>Rec.</u> (%)	Limits (%)	RPD	<u>) Limit (%)</u>	<u>Qualifiers</u>		
Perchlorate	14797-73-0	MS	24.50	0	25	97.9	80 - 120					
Perchlorate	14797-73-0	MSD	24.40	0	25	97.7	80 - 120	RPD	<u>0.17</u> (Max-15)			
Method Blank		3618226	6 (MB)		Creat	ted on <u>01</u>	/31/2023 13:26		For QC Batch	939883		
RESULTS												
Compound		CAS No			<u>Result</u> Un	its	<u>RDL</u>			<u>Qualifiers</u>		
Perchlorate		14797-73-0	BL	_K	ND ug/l	L	4.0			ND		
Lab Control Standard		361822	7 (LCS)		Creat	ted on <u>01</u>	/31/2023 13:53		For QC Batch	939883		
RESULTS												
			Dessilt	<u>Orig.</u>	<u>Spk</u>	Rec.						
Compound	CAS No		<u>rtesuit</u> (ug/L)	<u>Result</u> (ug/L)	<u>Added</u> (ug/L)	(%)	Limits (%)	<u>RPD</u>	<u>) Limit (%)</u>	Qualifiers		
Perchlorate	14797-73-0	LCS	25.40	<u> </u>	25	102	85 - 115					

 Project
 70244035

 Workorder
 3284651



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	Ву	Analysis Method	Anly Batch
3284651001	N-09338	N/A	N/A	N/A		EPA 314.0	939883
3284651002	IFE-3S/4S	N/A	N/A	N/A		EPA 314.0	939883
3284651003	GAC-3S/4S	N/A	N/A	N/A		EPA 314.0	939883
3284651004	N-14347	N/A	N/A	N/A		EPA 314.0	939883

0/2/20022 10:18 NM	Cha PASI Work	ain of Custody — New York Laboratory	·korder Name:	IOC/PERCH		DIOX 1/2	23		3284 bgged 1: SSL Res	465 By: k	1 (SB (SB (SB) (SB) (SB) (SB) (SB) (SB) (ested	By: 2/7/2023	Pace	Analytical [®] /ww.pacelabs.com
2	Repor	t / Invoice To	Subcor	ntract To	,						1-	Reques	sted Analysis		
	Jennif Pace 575 B Melvil Phone Email	er Aracri Analytical Melville road Hollow Road le, NY 11747 e (631)694-3040 : jennifer.aracri@pacelabs.com	ALS -N 301 Ful Middle	Middletown lling Mill Road town, PA 17057	P.O.	70244	4035 JSA		olorate by IC			(Temp By: WO Temp (°C) AMAF Receipt Info Completed By: Cooler Custody Seal Intact Sample Custody Seal Intact Received on Ice Cooler & Samples Intact	Therm ID Sb9 AMRF Y N C Y N C	-
	State	of Sample Origin: NY				Pres	erved Con	tainers	erc				Correct Containers Provided		
	ltem	Sample ID	Collect Date/Time	Lab ID	Matrix	Unpreserved			3140 P				Adequate Sample Volumes CR6 Samples Filtered OP Samples Filtered VOA Headspace Present		B USE ONLY
	1	N-09338	1/23/2023 09:30	70244035001	Drinking	\mathbf{x}			1 XI				Voa Trip Blank	Y N W	
р	2	IFE-3S/4S	1/23/2023 10:00	70244035002	Drinking	1×1			XI			+	Rad Screen (uCi)		
age	3	GAC-3S/4S	1/23/2023 11:00	70244035003	Drinking	1×1-	+		XI			+	Courier/Tracking#: 626	04758474]
34	4	N-14347	1/23/2023 12:00	70244035004	Drinking				X	\mathbf{T}		+-	SDWA Compliance	ΥD	
of	5				<u> </u>	<u>†́</u> †−				24	1151	1	PWSID WV Containers 0-6°C	Y N 😡	
37		\cap		-1	1	1	<u> </u>		1 1		1140			~ In	
	Transf	fers Released By	Date/Ti	me Receive	d By			Date/Tim	ne				no collector,	コル	
	1	May All Vig CA	1/24/2	13:50 EO	16.0			1		1	Pl	ease re	port in ug/L. 🙀 N	-14347	on COC
	2	Feder	o 11		Impeial	S		1125173	a:02	1			h	DS Q	different
	3					-		100100	1-43	1			S	umple	ID on
	Cool	er Temperature on Receipt	°C	Custodv Seal	Y or N		Rec	ived or	1 Ice	<u>г</u>	or I	N	Samples I	ntact V	or N
						L						•	Secoman	NECK	with hame 3 A. In
													addition d Sample wa different(bottle @	s coll on col 11:00	he the ected is c @12:00 on

2/3/2023 10:18 AM



Client Info:
Name or Code: Liberty Megrick
Address: 60 Brooklyn Ac
Merrick NY 11566
Phone #: 516 632 7359
Attn: Natasha Wiola
Proj. # or (Name):
Bill To:

Copies To: _

Sample Info:

47 Date: <u>U/23/23</u>

S

- Soil

Collected By: MGomes WELL RUN TO SYSTEM Scamp Powell PaceLI Accepted By: Andrew °C Cooler Temp: ____ □ YES □ NO VOC'S PRESERVED WITH H 1-23-23 Sample Types Purpose Origin **Treatment Types** PW - Potable Water RO - Routine D - Distribution AST - Air Stripper GW - Groundwater RE - Resample RW - Raw Well GAC - Granular Activated Charcoal S - Special TW - Treated Well SW - Surface Water N - Nitrate Removal Plant - Tank T WW - Waste Water FE - Iron Removal Plant MW - Monitoring Well AQ - Aqueous 0 - Other - Influent

- Effluent

Ε

WELL OFF LINE SLAM

	Date/1 Collec	Fime sted:	Sample Type	Location	Origin	Treatment Type	Purpose	Field R Cl ₂	eadings pH/Temp	Analysis	Lab No.
1/2:	3	9:30	GW	Seaman Nect 4 (N:0937	DRW	/	RO	/	5.02.9	JOC w/perchlorate	
1										GPFC nethed 533	
		10.00	PW	Graman NullIF	F	到已	RO	0.86	7.33	JOL w/perchlorate	
	[IFE-35/45							
		11:0D	PW	Seamun Neck GAL	E	GAL	RD		12.7	IOC uperchlorate APFCmeth	1533
	1			GAL-35/45					MG	DROLLED 1, 4D. Oxante	charldes
U	/	12:0D	GW	Seamen Neck 3A	RW	\geq	RD	/	5.10/22	Ich where into rate A ROLA	ROL
									110.6	DRFC method 533	
										E Thallium & Lead	
										DChlorides @ 1.4 Dioxa	nc.
Re	mark	S:									

/ accrualytical	Clier	it Name:	342	WO# . 70244005
	/ /	VYA	W	WUH · / UZ44035
Courier: Fed Ex UPS USPS	lient Dor	nmercial	Dace 🗆	Dther PM: JSA Due Date: 62/62/02
Tracking #:			* <u> </u>	CLIENT: NYAW
Custody Seal on Cooler/Box Present:	OVes D	Vo - Seal	ls intact: 🗌	Yes No. 2117.
Packing Material: Bubble Wrap B	ubble Bags	□Ziploc	Brone C	_Other Type of Ice: Wet He Nooe
thermometer Used: T11148	Corre	ection Fac	tor: + 0	
Cooler Temperature[°C]:	4 Coole	r Temper	rature Corre	rected[°C]: 4.5 Date/Time 5035A kits alored in trazer
Temp should be above freezing to 6.0°C			2. 2.	
USUA Regulated Soil (DN/A water sa	mple)		* a ***	Date and Initials of person examining contents DP 12
Did samples originate in a quarantine zor	ne within the	United St	ates AL AR	CA FL GA ID LA MS NC Did some for a function of the state
NM, NY, OK, OR, SC, TN, TX, or VA (check m	apl?	Yes Dir		includios the statistics of guide from a foreign source
If Yes to either question, fill out a Reg	ulated Soil	Checklist	[F-LI-C-010]	and include with SCIIR/COC paperwork
		-		
Chain of Custody Present-	.erres			L
Chain of Custody Filled Out:	ØYes	DNo		2
Chain of Custody Relinquished:	DYes	۵No		3.
Sampler Name & Signature on COC:	Dies	DNo	CIN/A	4
Samples Arrived within Hold Time:	Elles			5.
Short Hold Time Analysis (<72hr):	Difes	DNo		6
Rush Turn Around Time Requested:	⊡Yes	DNO	~ ~ ~	. 7
Sufficient Volume: (Triple volume provided	I for Imres	۵No		8.
Correct Containers Used:	Øles	⊡No		9.
-Pace Containers Used:	QYes	⊡Ņo		in the second
ontainers Intact:	Difes	۵No	4	10.
Filtered volume received for Dissolved test	ts 🗆 Yes	_ CINo	-BM/A	IL. Note if sediment is visible in the dissolved constainer
sample Labels match COC:	Pres.	⊡No	1	12.
-includes date/time/ID, Matrix: SL (W	TON .			
the containers needing preservation have b	ieen-⊡Yes	IDNo -	DIN/A	13. HNO3 DH2SO4 DN3OH DHCI -
H paper Lot # /	19			
Il containers needing preservation are for	ind to be	<i>6</i>	54 - C	Samole #
a compliance with method recommendation	00?			comple #
HNO3, H2SO4, HCl, NaOH>9 Sulfide,	DYes		PIN/A	
AOH>12 Cyanide)			Chien	
xceptions: VOA, Coliform, TOC/DOC, Oil and	l Grease,			
R0/8015 (water).	8			Initial when completed. I of # of added :
er Method, VOA pH is checked after analys	sis		_ :	preservative*
imples checked for dechlorination	. DYes	DNo	EN/A 4	14
starch test strips Lot #	•s 20 ∎:		8 U	· 1° .
sioual chlorine strips Lot #	1.1	-20		Positive for Res. Chlorine? Y N
14500 CH			DALA	15.
4 4500 CN samples checked for sulfide?	⊡Yës	M No	ENTR	
4 4500 CN samples checked for sulfide? ad Acetate Strips Lot #	⊡Yës	⊡No ∽	Jan/A	Positive for Sulfide? Y N .
4 4500 CN samples checked for sulfide? ad Acetate Strips Lot # adspace in VOA Vials (>6mm):	⊡Yës ⊡Yes	CINO DNO		Positive for Sulfide? Y N .
4 4500 CN samples checked for sulfide? ad Acetate Strips Lot # adspace in VOA Vials (>6mm): p Blank Present: p Blank Custody Seals Day	⊡Yës ⊡Yes ⊡Yes	LINO DNO DNO	DN/A DN/A	Positive for Sulfide? Y N . 15. 17.
4 4500 CN samples checked for sulfide? ad Acetate Strips Lot # adspace in VOA Vials (>6mm): p Blank Present: p Blank Custody Seals Present ce Trip Blank Lot # fit predice tel	CYës CYes CYes CYes	DNO DNO DNO DNO	DN/A DN/A DN/A	Positive for Sulfide? Y N . 16. 17.
4 4500 CN samples checked for sulfide? ad Acetate Strips Lot # adspace in VOA Vials (>6mm): ip Blank Present: p Blank Custody Seals Present ce Trip Blank Lot # (if applicable): ent Notification / Deschation	⊡Yës ⊡Yes ⊡Yes ⊡Yes		DN/A DN/A DN/A DN/A	Positive for Sulfide? Y N . 16. 17.
4 4500 CN samples checked for sulfide? ad Acetate Strips Lot # adspace in VOA Vials (>6mm): ip Blank Present: p Blank Custody Seals Present ce Trip Blank Lot # (if applicable): ent Notification/ Resolution: (SDD Contacted:	CIYës CIYes CIYes CIYes		DN/A DN/A DN/A DN/A	Positive for Sulfide? Y N . 15. 17. Relation of the second seco
4 4500 CN samples checked for sulfide? ad Acetate Strips Lot # adspace in VOA Vials (>6mm): p Blank Present: p Blank Custody Seals Present ce Trip Blank Lot # (if applicable): ent Notification/ Resolution: "son Contacted: mments/ Resolution:	☐Yës ☐Yes ☐Yes ☐Yes ——		DN/A DN/A DN/A	Positive for Sulfide? Y N 16. 17. 2 17. 2 Field Data Required? Y / N
M 4500 CN samples checked for sulfide? aad Acetate Strips Lot # aadspace in VOA Vials (>6mm): ip Blank Present: ip Blank Custody Seals Present ce Trip Blank Lot # (if applicable): ent Notification/ Resolution: rson Contacted: mments/ Resolution:	CIYës CIYes CIYes CIYes		DN/A DN/A DN/A DN/A	Positive for Sulfide? Y N 16. 17. 3 17. 3 Field Data Required? Y / N Date/Time:
4 4500 CN samples checked for sulfide? ad Acetate Strips Lot # adspace in VOA Vials (>6mm): p Blank Present: p Blank Custody Seals Present ce Trip Blank Lot # (if applicable): ent Notification/ Resolution: rson Contacted: mments/ Resolution:	CIYes CIYes CIYes CIYes		DN/A DN/A DN/A DN/A	Positive for Sulfide? Y N 16 17. 17. Field Data Required? Y / N Date/Time:
4 4500 CN samples checked for sulfide? ad Acetate Strips Lot # adspace in VOA Vials (>6mm): p Blank Present: p Blank Custody Seals Present ce Trip Blank Lot # (if applicable): ent Notification/ Resolution: "son Contacted: mments/ Resolution:	CIYes CIYes CIYes CIYes		DN/A DN/A DN/A DN/A	Positive for Sulfide? Y N 15. 17. 17. 2 Field Data Required? Y / N Date/Time:

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3		coc	PAGE	01	_										Sample Container Count)‡	‡	•	7	0	2	4	.4	-0	03	3	5											
z. į			Cilen	t:	N	(Y	<u>4</u> L	/									Prof	lle #		ک	15	3			30					~	1	Us	e Po	oint I	Num	ber	Spr	P	M: LI	JS EN1	SA T:	N	A	J	C	Due	e [Dat	te	: (02/	03	/2:	3			
_	wo	RK O	RDEF	e: I	α	Per	ch	R	4	1,4	09	Pox	1	1/2	3		N	otes																																	-10-						
COC Line Item	Matrix	VG9U	VG9C	VG9S	DG9T	DG9Y	DG9P	D05A	0661	DG9S	AG4U AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	N5-151	apac	2031	Brai	8535 8030	BP17	ap1N				MC211	MOZU	WGFU	WGKU	MGDU	ZPLC	GN	WP	00	soc								
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4			17	2											1			2			1		2	-	1							ľ	-	2						6			: 1				-	1		-							T
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Conta	uner	Loge		-				-						_		1.1	<u> </u>			_	-	<u></u>		14.8	-	. 0	6.4		_	_	-	_		_	1				_			_	- V	_	-							1	_				
		1					Glas								Т			Die	ette		_				1		-				Г				100	-					Г	-		-	Ma	trix				٦							
1	VG	9U	40mL	unpre	es cle	ear vla		G4L	J 1	25m	าL นกา	pres	amb	рег	BF	4U	12	SmL	unori	esen	ed	-	SP5	πТ	120r	nL C	olifo	m N	la Th	lo	8	P1U	1 1	Lun	ores	erve	d pla	astic			V	ΛT	- 1	Wate	er		111	-		-							
4	VG	9C	40mL	Asco	rbic-l	HCI	A	G31	J 2	250m	L un	pres	amb	ber	BF	2UC	250	DmL	unpre	eserv	red	-	R		Terra	acor	e Klt				B	P3N	* 2	50m	LHN	103	plas	tic			s	SL	1	Solic	1	-	_	_		1							
- 5	VG	9H	40mL	HCI	clear	vial	A	G2L	15	500m	ւր որ	pres	amb	ber	BF	2U	500	DmL	unpre	esen	ed		WG	2U	2oz	Unpr	eser	ved	Jar		В	P3C	; 2	50m	L So	diun	n		_		N	IAL	1	Non-	aqu	Jeor	is Li	iquid	i								
1	VG	9S	40mL	Sulfu	hine cl	lear v	Alla	Gil		lliter	unpr	es ar	mber	<u>г</u>	IBF	P1U	11L	unpr	esen	/ed p	last	C	WG	FU	4oz	Unpr	eser	ved	Jar	-	A	G2L) 5	00m	Լ սո	ores	am	ber			C)L	- (OIL		_											
¥.	DG	91 9Y	40mL	Citra	niost ate.N	anate		1634	* /	250m	N H2		250	her	8	24N	250		HNO		SUC	-	WG	KU	1607		reser	ved	Jar	-	-	_	-	_		_	-	-	_		V	NP		Wipe	e	147	_	-		-							
- 31	DG	9P	40mL	amb	er via	I - TS	PA	G4E		125m	IL ED	A ar	nber	r	BE	22N	500	ImC	HNO	3 pla	stic	-	7PI	C	Zible	CK F	lan	SIVEL	u Jai	-	÷	Can	aler	be	2 BD	AN	-	-				JVV		Urini	KINQ	VVa	ater		_	_							
- 5	DG	9A .	Ascor	bic/M	ateic	Acid	A	G3T	F 2	250m	L Na	Thic	o am	iber	BF	35	250	DmL	H2S	04 pl	astl		TED	DL I	Tedi	ar B	ad					Vun	diot	0.00		-114																					
	DG	6T	Na Th	io 60	mL V	/ial	A	G2F	2 1	va S	ulfite	500r	mL (I	blue	BF	2S	500	DmL	H2S	04 pl	astl	2	BG1	H	1L H	CL (Clear	r Gla	ass																												
	DG	9S	Ammo	onium	CI/C	uSO4	1 A	G17		va TI	hiosu	lfate	1L t	bottle	BF	25°	Na	OH 2	250m	L bo	tie		GN		Gen	eral					Г																										
	CG	10	1L Un	pres	Jar ((Con E	d) A	G1	1 1	IL HO	CI am	nber	glas	S	BF	P3T	250	DmL	Trizn	na .	_	_	WP		Wipe	3						-			SOC	8				-																	
ς,	INC	100	Roz cl	eare	oit iar		-^	GIA	4 []		nmor	num	Chic	oriae	BL	35	250		Amm	onlu	m	_			ii.						D	G9T	4	OmL	Na	Thio	aml	ber	-	2																	
2	WO	40	4oz cl	ear s	oil lar	r	-								BE	217	11	NaO	H 7	04-	tate	-			9					DG9A (40mL Ascorbic acid Z																											
· ·					1.17								BP1Z 1L NaOH, Zn Acetate									DGFT Niz Thiosufface from via 1																																			
1													BP1B Na Thiosulfate Amber									AG3U 250mL unpres amber																																			
													AG3T Na TI											la Th	niosu	lfate	250)mL																													
																															BP1B Na Thiosulfate Amber																										
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Addl	lonal	Com	ment	s			_			_	-																																				9										

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